JUNOS® Software

JUNOS XML API Operational Reference

Release 9.6

Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089
USA
408-745-2000
www.juniper.net

Published: 2009-07-20

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JUNOS® Software JUNOS XML API Operational Reference
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Writing: Philomena Dolla, Tony Mauro, Mahesh Anantharaman, and Preeti G Karkera
Editing: Laura Singer
Cover design: Edmonds Design

Revision History
2009-07-20—R1 JUNOS 9.6

The information in this document is current as of the date listed in the revision history.

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JUNOS Documentation and Release Notes

For a list of related JUNOS documentation, see http://www.juniper.net/techpubs/software/junos/.

If the information in the latest *JUNOS Release Notes* differs from the information in the documentation, follow the *JUNOS Release Notes*.

To obtain the most current version of all Juniper Networks technical documentation, see the product documentation page on the Juniper Networks website at http://www.juniper.net/.

Juniper Networks supports a technical book program to publish books by Juniper Networks engineers and subject matter experts with book publishers around the world. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration using JUNOS Software and Juniper Networks devices. In addition, the Juniper Networks Technical Library, published in conjunction with O'Reilly Media, explores improving network security, reliability, and availability using JUNOS configuration techniques. All the books are for sale at technical bookstores and book outlets around the world. The current list can be viewed at http://www.juniper.net/books.

Objectives

This reference provides complete information about the tag elements in the JUNOS Extensible Markup Language (XML) application programming interface (API) that JUNOScript and NETCONF client applications can use to request information about the operational status of a router. The tag elements are equivalent to operational mode commands in the JUNOS command-line interface (CLI).

The JUNOS XML API also defines tag elements for configuration information. Client applications can use the operations in the JUNOScript and NETCONF APIs to request and change this information. For more information, see the *JUNOScript API Guide* and *NETCONF API Guide*.

NOTE: For additional information about the JUNOS XML API Software—either corrections to or information that might have been omitted from this reference—see the software release notes at http://www.juniper.net/.

Audience

This reference is designed for Juniper Networks customers who want to write custom applications for monitoring routers that run the JUNOS Software. It assumes that you are familiar with basic terminology and concepts of XML, with XML-parsing utilities such as the Document Object Model (DOM) or Simple API for XML (SAX), and with the JUNOS command-line interface (CLI).

In addition, you need a broad understanding of networks in general, the Internet in particular, networking principles, and network configuration. You must also be familiar with one or more of the following Internet routing protocols:

- Border Gateway Protocol (BGP)
- Distance Vector Multicast Routing Protocol (DVMRP)
- Intermediate System-to-Intermediate System (IS-IS)
- Internet Control Message Protocol (ICMP) router discovery
- Internet Group Management Protocol (IGMP)
- Multiprotocol Label Switching (MPLS)
- Open Shortest Path First (OSPF)
- Protocol-Independent Multicast (PIM)
- Resource Reservation Protocol (RSVP)
- Routing Information Protocol (RIP)
- Simple Network Management Protocol (SNMP)

Personnel operating the equipment must be trained and competent; must not conduct themselves in a careless, willfully negligent, or hostile manner; and must abide by the instructions provided by the documentation.

Supported Platforms

For the features described in this manual, the JUNOS Software currently supports the following platforms:

- J Series
- M Series
- MX Series
- T Series
- EX Series

Using the Examples in This Manual

If you want to use the examples in this manual, you can use the load merge or the load merge relative command. These commands cause the software to merge the incoming configuration into the current candidate configuration. If the example configuration contains the top level of the hierarchy (or multiple hierarchies), the example is a *full example.* In this case, use the load merge command.

If the example configuration does not start at the top level of the hierarchy, the example is a *snippet*. In this case, use the load merge relative command. These procedures are described in the following sections.

Merging a Full Example

To merge a full example, follow these steps:

1. From the HTML or PDF version of the manual, copy a configuration example into a text file, save the file with a name, and copy the file to a directory on your routing platform.

   For example, copy the following configuration to a file and name the file ex-script.conf. Copy the ex-script.conf file to the /var/tmp directory on your routing platform.

```
system {
    scripts {
        commit {
            file ex-script.xsl;
        }
    }
}
interfaces {
    fxp0 {
        disable;
```

```
            unit 0 {
               family inet {
                  address 10.0.0.1/24;
               }
            }
         }
      }
```

2. Merge the contents of the file into your routing platform configuration by issuing the load merge configuration mode command:

```
[edit]
user@host# load merge /var/tmp/ex-script.conf
load complete
```

Merging a Snippet

To merge a snippet, follow these steps:

1. From the HTML or PDF version of the manual, copy a configuration snippet into a text file, save the file with a name, and copy the file to a directory on your routing platform.

   For example, copy the following snippet to a file and name the file ex-script-snippet.conf. Copy the ex-script-snippet.conf file to the /var/tmp directory on your routing platform.

```
commit {
    file ex-script-snippet.xsl;
}
```

2. Move to the hierarchy level that is relevant for this snippet by issuing the following configuration mode command:

```
[edit]
user@host# edit system scripts
[edit system scripts]
```

3. Merge the contents of the file into your routing platform configuration by issuing the load merge relative configuration mode command:

```
[edit system scripts]
user@host# load merge relative /var/tmp/ex-script-snippet.conf
load complete
```

For more information about the load command, see the *JUNOS CLI User Guide*.

Documentation Conventions

Table 1 defines notice icons used in this guide.

Table 1: Notice Icons

Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates a situation that might result in loss of data or hardware damage.
	Warning	Alerts you to the risk of personal injury or death.
	Laser warning	Alerts you to the risk of personal injury from a laser.

Table 2 defines the text and syntax conventions used in this guide.

Table 2: Text and Syntax Conventions

Convention	Element	Example
Bold text like this	Represents text that you type.	To enter configuration mode, type the configure command: user@host> **configure**
`Fixed-width text like this`	Represents output on the terminal screen.	`user@host> show chassis alarms` `No alarms currently active`
Italic text like this	■ Introduces important new terms. ■ Identifies book names. ■ Identifies RFC and Internet draft titles.	■ A policy *term* is a named structure that defines match conditions and actions. ■ *JUNOS System Basics Configuration Guide* ■ RFC 1997, *BGP Communities Attribute*
Italic text like this	Represents variables (options for which you substitute a value) in commands or configuration statements.	Configure the machine's domain name: [edit] root@# **set system domain-name** *domain-name*
Plain text like this	Represents names of configuration statements, commands, files, and directories; IP addresses; configuration hierarchy levels; or labels on routing platform components.	■ To configure a stub area, include the stub statement at the [edit protocols ospf area *area-id*] hierarchy level. ■ The console port is labeled CONSOLE.
< > (angle brackets)	Enclose optional keywords or variables.	stub <default-metric *metric*>;
| (pipe symbol)	Indicates a choice between the mutually exclusive keywords or variables on either side of the symbol. The set of choices is often enclosed in parentheses for clarity.	broadcast | multicast (*string1* | *string2* | *string3*)
# (pound sign)	Indicates a comment specified on the same line as the configuration statement to which it applies.	rsvp { # Required for dynamic MPLS only
[ ] (square brackets)	Enclose a variable for which you can substitute one or more values.	community name members [*community-ids*]

Indention and braces ({ })	Identify a level in the configuration hierarchy.	[edit]
		routing-options {
		  static {
		  route default {
		  nexthop *address*;
		  retain;
		  }
		  }
		}

; (semicolon)	Identifies a leaf statement at a configuration hierarchy level.	
J-Web GUI Conventions		
Bold text like this	Represents J-Web graphical user interface (GUI) items you click or select.	■ In the Logical Interfaces box, select **All Interfaces**. ■ To cancel the configuration, click **Cancel**.
> (bold right angle bracket)	Separates levels in a hierarchy of J-Web selections.	In the configuration editor hierarchy, select **Protocols > Ospf**.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. Send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at https://www.juniper.net/cgi-bin/docbugreport/. If you are using e-mail, be sure to include the following information with your comments:

- Document name
- Document part number
- Page number
- Software release version (not required for *Network Operations Guides [NOGs]*)

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need postsales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of out JTAC procedures and policies, review the JTAC User Guide located at http://www.juniper.net/customers/support/downloads/710059.pdf.
- Product warranties—For product warranty information, visit http://www.juniper.net/support/warranty/.
- JTAC Hours of Operations—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: http://www.juniper.net/customers/support/
- Search for known bugs: http://www2.juniper.net/kb/
- Find product documentation: http://www.juniper.net/techpubs/
- Find solutions and answer questions using our Knowledge Base: http://kb.juniper.net/
- Download the latest versions of software and review release notes: http://www.juniper.net/customers/csc/software/
- Search technical bulletins for relevant hardware and software notifications: https://www.juniper.net/alerts/

- Join and participate in the Juniper Networks Community Forum: http://www.juniper.net/company/communities/
- Open a case online in the CSC Case Manager: http://www.juniper.net/cm/

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool located at https://tools.juniper.net/SerialNumberEntitlementSearch/.

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Manager tool in the CSC at http://www.juniper.net/cm/
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, visit us at http://www.juniper.net/support/requesting-support.html.

Part 1

JUNOS XML Operational Tag Elements

- Mapping Between Operational Tag Elements, Perl Methods, and CLI Commands on page 3
- Summary of Operational Request Tag Elements on page 59
- Summary of Operational Response Tag Elements on page 371

Chapter 1

Mapping Between Operational Tag Elements, Perl Methods, and CLI Commands

Table 3 lists the JUNOS command-line interface (CLI) operational mode commands that have corresponding JUNOS Extensible Markup Language (XML) request tag elements in the current version of the JUNOS Software, and maps each command to its request tag element and Perl method, and its response tag element.

The request tag element and Perl method appear in that order in the middle column of the table. Both names include the same text strings with different separator characters. To derive the method name from the tag element name, remove the enclosing angle brackets and replace each hyphen with an underscore.

For a list of mappings organized alphabetically by request tag element name, see Table 4.

For more information about each request tag, see "Summary of Operational Request Tag Elements" on page 59. For more information about response tag elements, see "Summary of Operational Response Tag Elements" on page 371. For more information about Perl methods, see the *JUNOScript API Guide*. For more information about CLI commands, see the JUNOS operational mode command references.

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (1 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear ancp neighbor	<clear-ancp-neighbor-connection> clear_ancp_neighbor_connection	<ancp-neighbor-information>
clear ancp subscriber identifier	<clear-ancp-subscriber-identifier-information> clear_ancp_subscriber_identifier_information	<ancp-subscriber-identifier-information>
clear arp	<clear-arp-table> clear_arp_table	<clear-arp-table-results>
clear bgp damping	<clear-bgp-damping> clear_bgp_damping	NONE
clear bgp neighbor	<clear-bgp-neighbor> clear_bgp_neighbor	NONE
clear bgp table	<clear-bgp-table> clear_bgp_table	NONE

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (2 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear bridge mac-table	<clear-bridge-mac-table> clear_bridge_mac_table	NONE
clear bridge mac-table interface	<clear-bridge-interface-mac-table> clear_bridge_interface_mac_table	NONE
clear database-replication statistics	<clear-database-replication-statistics-information> clear_database_replication_statistics_information	NONE
clear dhcp relay binding	<clear-dhcp-relay-binding-information> clear_dhcp_relay_binding_information	NONE
clear dhcp relay statistics	<clear-dhcp-relay-statistics-information> clear_dhcp_relay_statistics_information	NONE
clear dhcp server binding	<clear-dhcp-server-binding-information> clear_dhcp_server_binding_information	NONE
clear dhcp server statistics	<clear-server-statistics-information> clear_server_statistics_information	NONE
clear diameter function	<clear-diameter-function> clear_diameter_function	NONE
clear diameter peer	<clear-diameter-peer> clear_diameter_peer	NONE
clear dot1x interface	<clear-dot1x-interface-session> clear_dot1x_interface_session	<dot1x-interface-session>
clear dot1x mac-address	<clear-dot1x-mac-session> clear_dot1x_mac_session	<dot1x-mac-session>
clear helper statistics	<clear-helper-statistics-information> clear_helper_statistics_information	NONE
clear helper statistics	<clear-helper-statistics-information> clear_helper_statistics_information	NONE
clear interfaces statistics	<clear-interfaces-statistics> clear_interfaces_statistics	NONE
clear interfaces statistics all	<clear-interfaces-statistics-all> clear_interfaces_statistics_all	NONE
clear ipv6 neighbors	<clear-ipv6-nd-information> clear_ipv6_nd_information	<ipv6-modify-nd>
clear isis adjacency	<clear-isis-adjacency-information> clear_isis_adjacency_information	NONE
clear isis database	<clear-isis-database-information> clear_isis_database_information	NONE
clear isis overload	<clear-isis-overload-information> clear_isis_overload_information	NONE
clear isis statistics	<clear-isis-statistics-information> clear_isis_statistics_information	NONE

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (3 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear lacp statistics interfaces	<clear-lacp-interface-statistics> clear_lacp_interface_statistics	NONE
clear mobile-ip binding all	<clear-binding-all> clear_binding_all	NONE
clear mobile-ip binding ip-address	<clear-binding-ip> clear_binding_ip	NONE
clear mobile-ip binding nai	<clear-binding-nai> clear_binding_nai	NONE
clear mobile-ip visitor all	<clear-visitor-all> clear_visitor_all	NONE
clear mobile-ip visitor ip-address	<clear-visitor-ip> clear_visitor_ip	NONE
clear mobile-ip visitor nai	<clear-visitor-nai> clear_visitor_nai	NONE
clear mpls lsp	<clear-mpls-lsp-information> clear_mpls_lsp_information	NONE
clear network-access aaa subscriber	<clear-aaa-subscriber-table> clear_aaa_subscriber_table	NONE
clear network-access aaa subscriber statistics	<clear-aaa-subscriber-table-specific-statistics> clear_aaa_subscriber_table_specific_statistics	NONE
clear network-access requests pending	<clear-authentication-pending-table> clear_authentication_pending_table	NONE
clear network-access requests statistics	<clear-authentication-statistics> clear_authentication_statistics	NONE
clear network-access securid-node-secret-file	<clear-node-secret-file> clear_node_secret_file	NONE
clear oam ethernet connectivity-fault-management delay-statistics	<clear-cfm-delay-statistics> clear_cfm_delay_statistics	NONE
clear oam ethernet connectivity-fault-management path-database	<clear-cfm-linktrace-path-database> clear_cfm_linktrace_path_database	NONE
clear oam ethernet connectivity-fault-management statistics	<clear-cfm-statistics> clear_cfm_statistics	NONE
clear oam ethernet lmi statistics	<clear-elmi-statistics> clear_elmi_statistics	NONE
clear ospf database	<clear-ospf-database-information> clear_ospf_database_information	NONE
clear ospf io-statistics	<clear-ospf-io-statistics-information> clear_ospf_io_statistics_information	NONE
clear ospf neighbor	<clear-ospf-neighbor-information> clear_ospf_neighbor_information	NONE
clear ospf overload	<clear-ospf-overload-information> clear_ospf_overload_information	NONE

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (4 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear ospf statistics	<clear-ospf-statistics-information> clear_ospf_statistics_information	NONE
clear ospf3 database	<clear-ospf3-database-information> clear_ospf3_database_information	NONE
clear ospf3 io-statistics	<clear-ospf3-io-statistics-information> clear_ospf3_io_statistics_information	NONE
clear ospf3 neighbor	<clear-ospf3-neighbor-information> clear_ospf3_neighbor_information	NONE
clear ospf3 overload	<clear-ospf3-overload-information> clear_ospf3_overload_information	NONE
clear ospf3 statistics	<clear-ospf3-statistics-information> clear_ospf3_statistics_information	NONE
clear passive-monitoring	<clear-passive-monitoring> clear_passive_monitoring	NONE
clear passive-monitoring statistics	<clear-passive-monitoring-statistics> clear_passive_monitoring_statistics	NONE
clear ppp statistics	<clear-ppp-statistics-information> clear_ppp_statistics_information	NONE
clear rsvp session	<clear-rsvp-session-information> clear_rsvp_session_information	NONE
clear rsvp statistics	<clear-rsvp-counters-information> clear_rsvp_counters_information	NONE
clear security idp application-identification application-system-cache	<clear-idp-application-system-cache> clear_idp_application_system_cache	<clear-idp-application-system-cache-information>
clear security idp application-statistics	<clear-idp-applications-information> clear_idp_applications_information	<idp-applications-information>
clear security idp attack table	<clear-idp-attack-table> clear_idp_attack_table	<clear-idp-attack-table-information>
clear security idp counters	<clear-idp-counters-by-counter-class> clear_idp_counters_by_counter_class	<clear-idp-counters-by-counter-class-information>
clear security idp ssl-inspection session-id-cache	<clear-idp-ssl-session-cache-information> clear_idp_ssl_session_cache_information	<clear-idp-ssl-session-cache-information>
clear services application-identification application-system-cache	<clear-appid-application-system-cache> clear_appid_application_system_cache	<clear-appid-application-system-cache-information>
clear services application-identification counter	<clear-appid-counter> clear_appid_counter	<clear-appid-counter>
clear services border-signaling-gateway statistics	<clear-service-border-signaling-gateway-statistics> clear_service_border_signaling_gateway_statistics	<service-border-signaling-gateway-drain-information>
clear services dynamic-flow-capture criteria	<clear-services-dynamic-flow-capture-criteria> clear_services_dynamic_flow_capture_criteria	<clear-services-dynamic-flow-capture-criteria>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (5 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear services dynamic-flow-capture sequence-number	<clear-services-dynamic-flow-capture-sequence-number> clear_services_dynamic_flow_capture_sequence_number	<clear-services-dynamic-flow-capture-sequence-number-results>
clear services flow-collector	<clear-services-flow-collector-information> clear_services_flow_collector_information	NONE
clear services flow-collector statistics	<clear-services-flow-collector-statistics> clear_services_flow_collector_statistics	<clear-services-flow-collector-response>
clear services flows	<clear-service-msp-flow-table-information> clear_service_msp_flow_table_information	<service-msp-flow-drain-information>
clear services flows ip-action	<clear-service-msp-flow-ipaction-table> clear_service_msp_flow_ipaction_table	<service-msp-flow-drain-information>
clear services pgcp gates	<clear-service-pgcp-gates> clear_service_pgcp_gates	<service-pgcp-gates-drain-information>
clear services pgcp gates gateway	<clear-service-pgcp-gates-gateway> clear_service_pgcp_gates_gateway	<service-pgcp-gates-gateway-drain-information>
clear services pgcp statistics	<clear-service-pgcp-statistics> clear_service_pgcp_statistics	<service-pgcp-statistics-drain-information>
clear services pgcp statistics gateway	<clear-service-pgcp-statistics-gateway> clear_service_pgcp_statistics_gateway	<service-pgcp-statistics-gateway-drain-information>
clear services service-sets statistics packet-drops	<clear-service-set-packet-drop-statistics> clear_service_set_packet_drop_statistics	<service-set-packet-drop-statistics>
clear services stateful-firewall flows	<clear-service-sfw-flow-table-information> clear_service_sfw_flow_table_information	<service-sfw-flow-drain-information>
clear services stateful-firewall sip-call	<clear-service-sfw-sip-call-information> clear_service_sfw_sip_call_information	<service-sfw-sip-call-drain-information>
clear services stateful-firewall sip-register	<clear-service-sfw-sip-register-information> clear_service_sfw_sip_register_information	<service-sfw-sip-register-drain-information>
clear system commit	<clear-system-commit> clear_system_commit	NONE
clear system reboot	<clear-reboot> clear_reboot	<clear-reboot-results>
clear system services dhcp binding	<clear-dhcp-binding-information> clear_dhcp_binding_information	NONE
clear system services dhcp conflict	<clear-dhcp-conflict-information> clear_dhcp_conflict_information	NONE
clear system services dhcp statistics	<clear-dhcp-statistics-information> clear_dhcp_statistics_information	NONE
clear system services reverse	<clear-system-services-reverse-information> clear_system_services_reverse_information	NONE
clear vpls mac-table	<clear-vpls-mac-table> clear_vpls_mac_table	NONE

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (6 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear vpls mac-table interface	<clear-vpls-interface-mac-table> clear_vpls_interface_mac_table	NONE
file checksum md5	<get-checksum-information> get_checksum_information	<checksum-information>
file compare	<file-compare> file_compare	NONE
file copy	<file-copy> file_copy	NONE
file delete	<file-delete> file_delete	NONE
file list	<file-list> file_list	<directory-list>
file rename	<file-rename> file_rename	NONE
file show	<file-show> file_show	<file-content>
help syslog	<get-syslog-tag-information> get_syslog_tag_information	<syslog-tag-information>
help tip cli	<get-cli-tip> get_cli_tip	NONE
monitor ethernet delay-measurement	<request-monitor-ethernet-delay-measurement> request_monitor_ethernet_delay_measurement	<ethdm-results>
op	<op-script> op_script	NONE
ping	<ping> ping	NONE
ping ethernet	<request-ping-ethernet> request_ping_ethernet	<ethping-results>
ping mpls l2circuit interface	<request-ping-l2circuit-interface> request_ping_l2circuit_interface	NONE
ping mpls l2circuit virtual-circuit	<request-ping-l2circuit-virtual-circuit> request_ping_l2circuit_virtual_circuit	NONE
ping mpls l2vpn instance	<request-ping-l2vpn-instance> request_ping_l2vpn_instance	NONE
ping mpls l2vpn interface	<request-ping-l2vpn-interface> request_ping_l2vpn_interface	NONE
ping mpls l3vpn	<request-ping-l3vpn> request_ping_l3vpn	NONE
ping mpls ldp	<request-ping-ldp-lsp> request_ping_ldp_lsp	NONE
ping mpls lsp-end-point	<request-ping-lsp-end-point> request_ping_lsp_end_point	NONE

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (7 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
ping mpls rsvp	<request-ping-rsvp-lsp> request_ping_rsvp_lsp	NONE
ping vpls instance	<request-ping-vpls-instance> request_ping_vpls_instance	NONE
quit	<request-end-session> request_end_session	<end-session>
request chassis feb	<request-feb> request_feb	NONE
request chassis redundancy feb	<request-redundancy-feb> request_redundancy_feb	NONE
request security datapath-debug action-profile reload-all	<reload-eedebug-action-profile> reload_eedebug_action_profile	<message>
request security idp security-package download	<request-idp-security-package-download> request_idp_security_package_download	<secpack-download-status>
request security idp security-package download version	<request-idp-security-package-download-version> request_idp_security_package_download_version	<secpack-download-status>
request security idp security-package install	<request-idp-security-package-install> request_idp_security_package_install	<secpack-update-status>
request security idp ssl-inspection key add	<request-idp-ssl-key-add> request_idp_ssl_key_add	<request-idp-ssl-key-add>
request security idp ssl-inspection key delete	<request-idp-ssl-key-delete> request_idp_ssl_key_delete	NONE
request services application-identification download	<request-appid-application-package-download> request_appid_application_package_download	<appid-download-status>
request services application-identification download version	<request-appid-application-package-download-version> request_appid_application_package_download_version	<appid-download-status>
request services application-identification uninstall	<request-appid-application-package-uninstall> request_appid_application_package_uninstall	<appid-apppack-uinstall>
request services flow-collector change-destination	<request-services-flow-collector-destination> request_services_flow_collector_destination	<flow-collector-destination-response>
request services flow-collector test-file-transfer	<request-services-flow-collector-test-file-transfer> request_services_flow_collector_test_file_transfer	<flow-collector-test-file-transfer-response>
request services ggsn pdp terminate apn	<request-ggsn-terminate-contexts-apn> request_ggsn_terminate_contexts_apn	<apn-pdp-context-deletion-results>
request services ggsn pdp terminate context	<request-ggsn-terminate-context> request_ggsn_terminate_context	<pdp-context-deletion-results>
request services ggsn pdp terminate context msisdn	<request-ggsn-terminate-msisdn-context> request_ggsn_terminate_msisdn_context	NONE
request services ggsn restart interface	<request-ggsn-restart-interface> request_ggsn_restart_interface	<interface-action-results>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (8 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
request services ggsn restart node	<request-ggsn-restart-node> request_ggsn_restart_node	<node-action-results>
request services ggsn stop interface	<request-ggsn-stop-interface> request_ggsn_stop_interface	<interface-action-results>
request services ggsn stop node	<request-ggsn-stop-node> request_ggsn_stop_node	NONE
request services ggsn trace software update	<request-ggsn-software-update> request_ggsn_software_update	<software-action-results>
request services ggsn trace start imsi	<request-ggsn-start-imsi-trace> request_ggsn_start_imsi_trace	NONE
request services ggsn trace start msisdn	<request-ggsn-start-msisdn-trace> request_ggsn_start_msisdn_trace	NONE
request services ggsn trace stop all	<request-ggsn-stop-trace-activity> request_ggsn_stop_trace_activity	NONE
request services ggsn trace stop imsi	<request-ggsn-stop-imsi-trace> request_ggsn_stop_imsi_trace	NONE
request services ggsn trace stop msisdn	<request-ggsn-stop-msisdn-trace> request_ggsn_stop_msisdn_trace	NONE
request snmp spoof-trap	<request-snmp-spoof-trap> request_snmp_spoof_trap	<snmp-spoof-trap-results>
request system configuration rescue delete	<request-delete-rescue-configuration> request_delete_rescue_configuration	<rescue-management-results>
request system configuration rescue save	<request-save-rescue-configuration> request_save_rescue_configuration	<rescue-management-results>
request system halt	<request-halt> request_halt	NONE
request system license delete	<request-license-delete> request_license_delete	NONE
request system power-off	<request-power-off> request_power_off	NONE
request system reboot	<request-reboot> request_reboot	<request-reboot-results>
request system scripts add	<request-scripts-package-add> request_scripts_package_add	NONE
request system scripts delete	<request-scripts-package-delete> request_scripts_package_delete	NONE
request system scripts event-scripts reload	<reload-event-scripts> reload_event_scripts	<event-scripts-reload>
request system scripts rollback	<request-scripts-package-rollback> request_scripts_package_rollback	NONE
request system snapshot	<request-snapshot> request_snapshot	NONE

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (9 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
request system software abort in-service-upgrade	<abort-in-service-upgrade> abort_in_service_upgrade	NONE
request system software add	<request-package-add> request_package_add	NONE
request system software delete	<request-package-delete> request_package_delete	NONE
request system software delete-backup	<request-package-delete-backup> request_package_delete_backup	NONE
request system software in-service-upgrade	<request-package-in-service-upgrade> request_package_in_service_upgrade	NONE
request system software rollback	<request-package-rollback> request_package_rollback	NONE
request system software validate	<request-package-validate> request_package_validate	NONE
request system software validate in-service-upgrade	<check-in-service-upgrade> check_in_service_upgrade	NONE
request system storage cleanup	<request-system-storage-cleanup> request_system_storage_cleanup	<system-storage-cleanup-information>
set cli logical-system	<set-logical-router> set_logical_router	NONE
show accounting profile	<get-accounting-profile-information> get_accounting_profile_information	<accounting-profile-information>
show accounting records	<get-accounting-record-information> get_accounting_record_information	<accounting-record-information>
show ancp cos	<get-ancp-cos-information> get_ancp_cos_information	<ancp-cos-information>
show ancp cos last-update	<get-ancp-cos-last-update-information> get_ancp_cos_last_update_information	<ancp-cos-information>
show ancp cos pending-update	<get-ancp-cos-pending-information> get_ancp_cos_pending_information	<ancp-cos-information>
show ancp neighbor	<get-ancp-neighbor-information> get_ancp_neighbor_information	<ancp-neighbor-information>
show ancp subscriber	<get-ancp-subscriber-information> get_ancp_subscriber_information	<ancp-subscriber-information>
show arp	<get-arp-table-information> get_arp_table_information	<arp-table-information>
show bfd session	<get-bfd-session-information> get_bfd_session_information	<bfd-session-information>
show bgp group	<get-bgp-group-information> get_bgp_group_information	<bgp-group-information>
show bgp group rtf	<get-bgp-rtf-information> get_bgp_rtf_information	<bgp-rtf-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (10 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show bgp group traffic-statistics	<get-bgp-traffic-statistics-information> get_bgp_traffic_statistics_information	<bgp-traffic-statistics-information>
show bgp neighbor	<get-bgp-neighbor-information> get_bgp_neighbor_information	<bgp-information>
show bgp neighbor orf	<get-bgp-orf-information> get_bgp_orf_information	<bgp-orf-information>
show bgp summary	<get-bgp-summary-information> get_bgp_summary_information	<bgp-information>
show bridge domain	<get-bridge-instance-information> get_bridge_instance_information	NONE
show bridge flood event-queue	<get-bridge-domain-event-queue-information> get_bridge_domain_event_queue_information	<l2ald-bridge-domain-flood-event-queue>
show bridge flood route all-ce-flood	<get-show-bridge-domain-all-ce-flood-route-information> get_show_bridge_domain_all_ce_flood_route_information	<l2ald-bridge-domain-flood-route-information>
show bridge flood route all-ve-flood	<get-show-bridge-domain-ve-flood-route-information> get_show_bridge_domain_ve_flood_route_information	<l2ald-bridge-domain-flood-route-information>
show bridge flood route alt-root-flood	<get-bridge-domain-alt-root-flood-route-information> get_bridge_domain_alt_root_flood_route_information	<l2ald-bridge-domain-flood-route-information>
show bridge flood route bd-flood	<get-bridge-domain-bd-flood-route-information> get_bridge_domain_bd_flood_route_information	<l2ald-bridge-domain-flood-route-information>
show bridge flood route mlp-flood	<get-bridge-domain-mlp-flood-route-information> get_bridge_domain_mlp_flood_route_information	<l2ald-bridge-domain-flood-route-information>
show bridge flood route re-flood	<get-bridge-domain-re-flood-route-information> get_bridge_domain_re_flood_route_information	<l2ald-bridge-domain-flood-route-information>
show bridge mac-table	<get-bridge-mac-table> get_bridge_mac_table	NONE
show bridge mac-table interface	<get-bridge-interface-mac-table> get_bridge_interface_mac_table	NONE
show bridge statistics	<get-bridge-statistics-information> get_bridge_statistics_information	<bridge-statistics-information>
show chassis alarms	<get-alarm-information> get_alarm_information	<alarm-information>
show chassis cfeb	<get-cfeb-information> get_cfeb_information	<scb-information>
show chassis craft-interface	<get-craft-information> get_craft_information	<craft-information>
show chassis environment	<get-environment-information> get_environment_information	<environment-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (11 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show chassis environment cb	<get-environment-cb-information> get_environment_cb_information	<environment-component-information>
show chassis environment cip	<get-environment-cip-information> get_environment_cip_information	<environment-component-information>
show chassis environment feb	<get-environment-feb-information> get_environment_feb_information	<environment-component-information>
show chassis environment fpc	<get-environment-fpc-information> get_environment_fpc_information	<environment-component-information>
show chassis environment fpm	<get-environment-fpm-information> get_environment_fpm_information	<environment-component-information>
show chassis environment mcs	<get-environment-mcs-information> get_environment_mcs_information	<environment-component-information>
show chassis environment pcg	<get-environment-pcg-information> get_environment_pcg_information	<environment-component-information>
show chassis environment pem	<get-environment-pem-information> get_environment_pem_information	<environment-component-information>
show chassis environment psu	<get-environment-psu-information> get_environment_psu_information	<environment-component-information>
show chassis environment routing-engine	<get-environment-re-information> get_environment_re_information	<environment-component-information>
show chassis environment scg	<get-environment-scg-information> get_environment_scg_information	<environment-component-information>
show chassis environment sfm	<get-environment-sfm-information> get_environment_sfm_information	<environment-component-information>
show chassis environment sib	<get-environment-sib-information> get_environment_sib_information	<environment-component-information>
show chassis fabric fpcs	<get-fm-fpc-state-information> get_fm_fpc_state_information	<fm-fpc-state-information>
show chassis fabric plane	<get-fm-plane-state-information> get_fm_plane_state_information	<fm-plane-state-information>
show chassis fabric sibs	<get-fm-sib-state-information> get_fm_sib_state_information	<fm-sib-state-information>
show chassis fabric summary	<get-fm-state-information> get_fm_state_information	<fm-state-information>
show chassis feb	<get-feb-brief-information> get_feb_brief_information	<scb-information>
show chassis feb detail	<get-feb-information> get_feb_information	<scb-information>
show chassis firmware	<get-firmware-information> get_firmware_information	<firmware-information>
show chassis forwarding	<get-fwdd-information> get_fwdd_information	<scb-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (12 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show chassis fpc	<get-fpc-information> get_fpc_information	<fpc-information>
show chassis fpc pic-status	<get-pic-information> get_pic_information	<fpc-information>
show chassis fpc-feb-connectivity	<get-fpc-feb-connectivity-information> get_fpc_feb_connectivity_information	<fpc-feb-connectivity>
show chassis hardware	<get-chassis-inventory> get_chassis_inventory	<chassis-inventory>
show chassis ioc-npc-connectivity	<get-ioc-npc-connectivity-information> get_ioc_npc_connectivity_information	<ioc-npc-connectivity>
show chassis lccs	<get-fru-information> get_fru_information	<fru-information>
show chassis location	<get-chassis-location> get_chassis_location	<chassis-location>
show chassis location interface by-name	<get-interface-location-name-information> get_interface_location_name_information	<interface-location-name-information>
show chassis location interface by-slot	<get-interface-location-information> get_interface_location_information	<interface-location-slot-information>
show chassis network-services	<network-services> network_services	<network-services>
show chassis pic	<get-pic-detail> get_pic_detail	<pic-information>
show chassis power-ratings	<get-power-management> get_power_management	<power-management-information>
show chassis psd	<get-psd-information> get_psd_information	<psd-information>
show chassis redundancy feb	<get-feb-redundancy-information> get_feb_redundancy_information	<feb-redundancy-information>
show chassis redundancy feb errors	<get-feb-redundancy-error-information> get_feb_redundancy_error_information	<feb-redundancy-error-information>
show chassis redundancy feb redundancy-group	<get-feb-redundancy-group-information> get_feb_redundancy_group_information	<feb-redundancy-group-information>
show chassis routing-engine	<get-route-engine-information> get_route_engine_information	<route-engine-information>
show chassis scb	<get-scb-information> get_scb_information	<scb-information>
show chassis sfm	<get-sfm-information> get_sfm_information	<scb-information>
show chassis sibs	<get-sib-information> get_sib_information	<sib-information>
show chassis spmb	<get-spmb-information> get_spmb_information	<spmb-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (13 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show chassis spmb sibs	<get-spmb-sib-information> get_spmb_sib_information	<sib-information>
show chassis ssb	<get-ssb-information> get_ssb_information	<scb-information>
show chassis synchronization	<get-clock-synchronization-information> get_clock_synchronization_information	<clock-synchronization-information>
show chassis temperature-thresholds	<get-temperature-threshold-information> get_temperature_threshold_information	<temperature-threshold-information>
show chassis vcpu	<get-vcpu-information> get_vcpu_information	<vcpu-information>
show class-of-service	<get-cos-information> get_cos_information	<cos-information>
show class-of-service adaptive-shaper	<get-cos-adaptive-shaper-information> get_cos_adaptive_shaper_information	<cos-adaptive-shaper-information>
show class-of-service classifier	<get-cos-classifier-information> get_cos_classifier_information	<cos-classifier-information>
show class-of-service code-point-aliases	<get-cos-code-point-map-information> get_cos_code_point_map_information	<cos-code-point-map-information>
show class-of-service drop-profile	<get-cos-drop-profile-information> get_cos_drop_profile_information	<cos-drop-profile-information>
show class-of-service fabric scheduler-map	<get-cos-fabric-scheduler-map-information> get_cos_fabric_scheduler_map_information	<cos-fabric-scheduler-map-information>
show class-of-service fabric statistics	<get-fabric-queue-information> get_fabric_queue_information	<fabric-queue-information>
show class-of-service forwarding-class	<get-cos-forwarding-class-information> get_cos_forwarding_class_information	<cos-forwarding-class-information>
show class-of-service forwarding-table	<get-cos-table-information> get_cos_table_information	<cos-table-information>
show class-of-service forwarding-table classifier	<get-cos-classifier-table-information> get_cos_classifier_table_information	<cos-classifier-table-information>
show class-of-service forwarding-table classifier mapping	<get-cos-classifier-table-map-information> get_cos_classifier_table_map_information	<cos-classifier-table-map-information>
show class-of-service forwarding-table drop-profile	<get-cos-red-information> get_cos_red_information	<cos-red-information>
show class-of-service forwarding-table fabric scheduler-map	<get-cos-fwtab-fabric-scheduler-map-information> get_cos_fwtab_fabric_scheduler_map_information	<cos-fwtab-fabric-scheduler-map-information>
show class-of-service forwarding-table forwarding-class-map	<get-cos-forwarding-class-map-table-information> get_cos_forwarding_class_map_table_information	<cos-forwarding-class-map-table-information>
show class-of-service forwarding-table forwarding-class-map mapping	<get-cos-forwarding-class-map-interface-table-information> get_cos_forwarding_class_map_interface_table_information	<cos-forwarding-class-map-inteface-table-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (14 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show class-of-service forwarding-table loss-priority-map	<get-cos-loss-priority-map-table-information> get_cos_loss_priority_map_table_information	<cos-loss-priority-map-table-information>
show class-of-service forwarding-table loss-priority-map mapping	<get-cos-loss-priority-map-table-binding-information> get_cos_loss_priority_map_table_binding_information	<cos-loss-priority-map-table-binding-information>
show class-of-service forwarding-table policer	<get-cos-policer-table-map-information> get_cos_policer_table_map_information	<cos-policer-table-map-information>
show class-of-service forwarding-table rewrite-rule	<get-cos-rewrite-table-information> get_cos_rewrite_table_information	<cos-rewrite-table-information>
show class-of-service forwarding-table rewrite-rule mapping	<get-cos-rewrite-table-map-information> get_cos_rewrite_table_map_information	<cos-rewrite-table-map-information>
show class-of-service forwarding-table scheduler-map	<get-cos-scheduler-map-table-information> get_cos_scheduler_map_table_information	<cos-scheduler-map-table-information>
show class-of-service forwarding-table shaper	<get-cos-shaper-table-map-information> get_cos_shaper_table_map_information	<cos-shaper-table-map-information>
show class-of-service forwarding-table translation-table	<get-cos-translation-table-information> get_cos_translation_table_information	<cos-translation-table-information>
show class-of-service forwarding-table translation-table mapping	<get-cos-translation-table-mapping-information> get_cos_translation_table_mapping_information	<cos-translation-table-mapping-information>
show class-of-service fragmentation-map	<get-cos-fragmentation-map-information> get_cos_fragmentation_map_information	<cos-fragmentation-map-information>
show class-of-service interface	<get-cos-interface-map-information> get_cos_interface_map_information	<cos-interface-information>
show class-of-service interface-set	<get-cos-interface-set-map-information> get_cos_interface_set_map_information	<cos-interface-set-information>
show class-of-service l2tp-session	<get-cos-l2tp-session-map-information> get_cos_l2tp_session_map_information	<cos-l2tp-session-information>
show class-of-service loss-priority-map	<get-cos-loss-priority-map-information> get_cos_loss_priority_map_information	<cos-loss-priority-map-information>
show class-of-service multi-destination	<get-cos-multi-destination-information> get_cos_multi_destination_information	<cos-multi-destination-information>
show class-of-service rewrite-rule	<get-cos-rewrite-information> get_cos_rewrite_information	<cos-rewrite-information>
show class-of-service routing-instance	<get-cos-routing-instance-map-information> get_cos_routing_instance_map_information	<cos-routing-instance-information>
show class-of-service scheduler-map	<get-cos-scheduler-map-information> get_cos_scheduler_map_information	<cos-scheduler-map-information>
show class-of-service traffic-control-profile	<get-cos-traffic-control-profile-information> get_cos_traffic_control_profile_information	<cos-traffic-control-profile-information>
show class-of-service translation-table	<get-cos-translation-table-map-information> get_cos_translation_table_map_information	<cos-translation-table-map-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (15 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show class-of-service virtual-channel	<get-cos-virtual-channel-information> get_cos_virtual_channel_information	<cos-virtual-channel-information>
show class-of-service virtual-channel-group	<get-cos-virtual-channel-group-information> get_cos_virtual_channel_group_information	<cos-virtual-channel-group-information>
show cli authorization	<get-authorization-information> get_authorization_information	<authorization-information>
show database-replication statistics	<get-database-replication-statistics-information> get_database_replication_statistics_information	<database-replication-statistics-information>
show database-replication summary	<get-database-replication-summary-information> get_database_replication_summary_information	<database-replication-summary-information>
show dhcp relay binding	<get-dhcp-relay-binding-information> get_dhcp_relay_binding_information	<dhcp-relay-binding-information>
show dhcp relay statistics	<get-dhcp-relay-statistics-information> get_dhcp_relay_statistics_information	<dhcp-relay-statistics-information>
show dhcp server binding	<get-dhcp-server-binding-information> get_dhcp_server_binding_information	<dhcp-server-binding-information>
show dhcp server statistics	<get-dhcp-server-statistics-information> get_dhcp_server_statistics_information	<dhcp-server-statistics-information>
show diameter	<get-diameter-information> get_diameter_information	<diameter-information>
show diameter function	<get-diameter-function-information> get_diameter_function_information	<diameter-function-information>
show diameter function statistics	<get-diameter-function-statistics> get_diameter_function_statistics	<diameter-function-statistics>
show diameter instance	<get-diameter-instance-information> get_diameter_instance_information	<diameter-instance-information>
show diameter network-element	<get-diameter-network-element-information> get_diameter_network_element_information	<diameter-network-element-information>
show diameter network-element map	<get-diameter-network-element-map-information> get_diameter_network_element_map_information	<diameter-network-element-map-information>
show diameter peer	<get-diameter-peer-information> get_diameter_peer_information	<diameter-peer-information>
show diameter peer map	<get-diameter-peer-map-information> get_diameter_peer_map_information	<diameter-peer-map-information>
show diameter peer statistics	<get-diameter-peer-statistics> get_diameter_peer_statistics	<diameter-peer-statisitics>
show diameter route	<get-diameter-route-information> get_diameter_route_information	<diameter-route-information>
show dot1x authentication-failed-users	<get-dot1x-authentication-failed-users> get_dot1x_authentication_failed_users	<dot1x-authentication-failed-users>
show dot1x interface	<get-dot1x-interface-information> get_dot1x_interface_information	<dot1x-interface-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (16 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show dot1x static-mac-address	<get-dot1x-static-mac-addresess> get_dot1x_static_mac_addresess	<dot1x-static-mac-addresses>
show dot1x static-mac-address interface	<get-dot1x-interface-mac-addresses> get_dot1x_interface_mac_addresses	<dot1x-interface-mac-addresses>
show dvmrp interfaces	<get-dvmrp-interfaces-information> get_dvmrp_interfaces_information	<dvmrp-interfaces-information>
show dvmrp neighbors	<get-dvmrp-neighbors-information> get_dvmrp_neighbors_information	<dvmrp-neighbors-information>
show dvmrp prefix	<get-dvmrp-prefix-information> get_dvmrp_prefix_information	<dvmrp-prefix-information>
show dvmrp prunes	<get-dvmrp-prunes-information> get_dvmrp_prunes_information	<dvmrp-prunes-information>
show esis adjacency	<get-esis-adjacency-information> get_esis_adjacency_information	<esis-adjacency-information>
show esis interface	<get-esis-interface-information> get_esis_interface_information	<esis-interface-information>
show esis statistics	<get-esis-statistics-information> get_esis_statistics_information	<esis-statistics-information>
show extension-provider system connections	<get-mspinfo-connections> get_mspinfo_connections	<mspinfo-raw-output>
show extension-provider system packages	<get-mspinfo-packages> get_mspinfo_packages	<mspinfo-raw-output>
show extension-provider system processes	<get-mspinfo-processes> get_mspinfo_processes	<mspinfo-raw-output>
show extension-provider system processes brief	<get-mspinfo-processes-brief> get_mspinfo_processes_brief	<mspinfo-raw-output>
show extension-provider system processes extensive	<get-mspinfo-processes-extensive> get_mspinfo_processes_extensive	<mspinfo-raw-output>
show extension-provider system uptime	<get-mspinfo-uptime> get_mspinfo_uptime	<mspinfo-raw-output>
show extension-provider system virtual-memory	<get-mspinfo-virtual-memory> get_mspinfo_virtual_memory	<mspinfo-raw-output>
show firewall	<get-firewall-information> get_firewall_information	<firewall-information>
show firewall counter	<get-firewall-counter-information> get_firewall_counter_information	<firewall-counter-information>
show firewall filter	<get-firewall-filter-information> get_firewall_filter_information	<firewall-filter-information>
show firewall log	<get-firewall-log-information> get_firewall_log_information	<firewall-log-information>
show firewall prefix-action-stats	<get-firewall-prefix-action-information> get_firewall_prefix_action_information	<firewall-prefix-action-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (17 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show helper statistics	<get-helper-statistics-information> get_helper_statistics_information	<helper-statistics-information>
show helper statistics	<get-helper-statistics-information> get_helper_statistics_information	<helper-statistics-information>
show igmp group	<get-igmp-group-information> get_igmp_group_information	<igmp-group-information>
show igmp interface	<get-igmp-interface-information> get_igmp_interface_information	<igmp-interface-information>
show igmp output-group	<get-igmp-output-group-information> get_igmp_output_group_information	<igmp-output-group-information>
show igmp snooping interface	<get-igmp-snooping-interface-information> get_igmp_snooping_interface_information	<igmp-interface-information>
show igmp snooping membership	<get-igmp-snooping-membership-information> get_igmp_snooping_membership_information	<igmp-snooping-membership-information>
show igmp snooping statistics	<get-igmp-snooping-statistics-information> get_igmp_snooping_statistics_information	<igmp-statistics-information>
show igmp statistics	<get-igmp-statistics-information> get_igmp_statistics_information	<igmp-statistics-information>
show ike security-associations	<get-ike-security-associations-information> get_ike_security_associations_information	<ike-security-associations-information>
show interfaces	<get-interface-information> get_interface_information	<interface-information>
show interfaces destination-class	<get-destination-class-statistics> get_destination_class_statistics	<destination-class-statistics>
show interfaces diagnostics optics	<get-interface-optics-diagnostics-information> get_interface_optics_diagnostics_information	<interface-optics-diagnostics-information>
show interfaces filters	<get-interface-filter-information> get_interface_filter_information	<interface-filter-information>
show interfaces interface-set queue	<get-interface-set-queue-information> get_interface_set_queue_information	<interface-set-queue-information>
show interfaces mac-database	<get-mac-database> get_mac_database	<mac-database>
show interfaces policers	<get-interface-policer-information> get_interface_policer_information	<interface-policer-information>
show interfaces queue	<get-interface-queue-information> get_interface_queue_information	<interface-information>
show interfaces source-class	<get-source-class-statistics> get_source_class_statistics	<source-class-statistics>
show ipsec certificates	<get-certificates-information> get_certificates_information	<certificates-information>
show ipsec certificates crl	<get-crl-information> get_crl_information	<crl-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (18 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show ipsec redundancy interface	<get-ipsec-pic-redundancy-information> get_ipsec_pic_redundancy_information	<ipsec-pic-redundancy-information>
show ipsec redundancy security-associations	<get-ipsec-tunnel-redundancy-information> get_ipsec_tunnel_redundancy_information	<ipsec-tunnel-redundancy-information>
show ipsec security-associations	<get-security-associations-information> get_security_associations_information	<security-associations-information>
show ipv6 neighbors	<get-ipv6-nd-information> get_ipv6_nd_information	<ipv6-nd-information>
show ipv6 router-advertisement	<get-ipv6-ra-information> get_ipv6_ra_information	<ipv6-ra-information>
show isis adjacency	<get-isis-adjacency-information> get_isis_adjacency_information	<isis-adjacency-information>
show isis authentication	<get-isis-authentication-information> get_isis_authentication_information	<isis-authentication-information>
show isis backup coverage	<get-isis-backup-coverage-information> get_isis_backup_coverage_information	<isis-backup-coverage-information>
show isis backup label-switched-path	<get-isis-backup-lsp-information> get_isis_backup_lsp_information	<isis-backup-lsp-information>
show isis backup spf results	<get-isis-backup-spf-results-information> get_isis_backup_spf_results_information	<isis-backup-spf-results-information>
show isis database	<get-isis-database-information> get_isis_database_information	<isis-database-information>
show isis hostname	<get-isis-hostname-information> get_isis_hostname_information	<isis-hostname-information>
show isis interface	<get-isis-interface-information> get_isis_interface_information	<isis-interface-information>
show isis overview	<get-isis-overview-information> get_isis_overview_information	<isis-overview-information>
show isis route	<get-isis-route-information> get_isis_route_information	<isis-route-information>
show isis spf brief	<get-isis-spf-results-brief-information> get_isis_spf_results_brief_information	<isis-spf-results-brief-information>
show isis spf log	<get-isis-spf-log-information> get_isis_spf_log_information	<isis-spf-log-information>
show isis spf results	<get-isis-spf-results-information> get_isis_spf_results_information	<isis-spf-results-information>
show isis statistics	<get-isis-statistics-information> get_isis_statistics_information	<isis-statistics-information>
show l2circuit connections	<get-l2ckt-connection-information> get_l2ckt_connection_information	<l2ckt-connection-information>
show l2vpn connections	<get-l2vpn-connection-information> get_l2vpn_connection_information	<l2vpn-connection-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (19 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show lacp interfaces	<get-lacp-interface-information> get_lacp_interface_information	NONE
show lacp statistics interfaces	<get-lacp-interface-statistics> get_lacp_interface_statistics	NONE
show ldp database	<get-ldp-database-information> get_ldp_database_information	<ldp-database-information>
show ldp fec-filters	<get-ldp-fec-filters-information> get_ldp_fec_filters_information	<ldp-fec-filters-information>
show ldp interface	<get-ldp-interface-information> get_ldp_interface_information	<ldp-interface-information>
show ldp neighbor	<get-ldp-neighbor-information> get_ldp_neighbor_information	<ldp-neighbor-information>
show ldp path	<get-ldp-path-information> get_ldp_path_information	<ldp-path-information>
show ldp route	<get-ldp-route-information> get_ldp_route_information	<ldp-route-information>
show ldp session	<get-ldp-session-information> get_ldp_session_information	<ldp-session-information>
show ldp statistics	<get-ldp-statistics-information> get_ldp_statistics_information	<ldp-statistics-information>
show ldp traffic-statistics	<get-ldp-traffic-statistics-information> get_ldp_traffic_statistics_information	<ldp-traffic-statistics-information>
show link-management	<get-lm-information> get_lm_information	<lm-information>
show link-management peer	<get-lm-peer-information> get_lm_peer_information	<lm-peer-information>
show link-management routing	<get-lm-routing-information> get_lm_routing_information	<lm-information>
show link-management routing peer	<get-lm-routing-peer-information> get_lm_routing_peer_information	<lm-peer-information>
show link-management routing resource	<get-lm-routing-resource-information> get_lm_routing_resource_information	<lm-resource>
show link-management routing te-link	<get-lm-routing-te-link-information> get_lm_routing_te_link_information	<lm-te-link-information>
show link-management statistics	<get-lm-statistics-information> get_lm_statistics_information	<lm-statistics-information>
show link-management statistics peer	<get-lm-peer-statistics> get_lm_peer_statistics	<lm-peer-statistics>
show link-management te-link	<get-lm-te-link-information> get_lm_te_link_information	<lm-te-link-information>
show lldp	<get-lldp-information> get_lldp_information	<lldp-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (20 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show lldp detail	<get-lldp-information-detail> get_lldp_information_detail	<lldp-information-detail>
show lldp local-information	<get-lldp-local-info> get_lldp_local_info	<lldp-local-info>
show lldp neighbors	<get-lldp-neighbors-information> get_lldp_neighbors_information	<lldp-neighbors-information>
show lldp remote-global-statistics	<get-lldp-remote-global-statistics> get_lldp_remote_global_statistics	<lldp-remote-global-statistics>
show lldp statistics	<get-lldp-statistics-information> get_lldp_statistics_information	<lldp-statistics-information>
show mld group	<get-mld-group-information> get_mld_group_information	<mld-group-information>
show mld interface	<get-mld-interface-information> get_mld_interface_information	<mld-interface-information>
show mld output-group	<get-mld-output-group-information> get_mld_output_group_information	<mld-output-group-information>
show mld statistics	<get-mld-statistics-information> get_mld_statistics_information	<mld-statistics-information>
show mobile-ip home-agent binding	<get-mip-binding-information> get_mip_binding_information	<mip-binding-information>
show mobile-ip home-agent binding ip-address	<get-ip-mip-binding-information> get_ip_mip_binding_information	<mip-binding-information>
show mobile-ip home-agent binding nai	<get-nai-mip-binding-information> get_nai_mip_binding_information	<mip-binding-information>
show mobile-ip home-agent binding summary	<get-summary-mip-binding-information> get_summary_mip_binding_information	<mip-binding-information>
show mobile-ip home-agent interface	<get-mip-ha-interface-information> get_mip_ha_interface_information	<mip-ha-interface-information>
show mobile-ip home-agent overview	<get-mip-ha-overview-information> get_mip_ha_overview_information	<mip-ha-overview-information>
show mobile-ip home-agent traffic	<get-mip-ha-traffic-information> get_mip_ha_traffic_information	<mip-home-agent-traffic-information>
show mobile-ip home-agent virtual-network	<get-mip-ha-virtual-network-information> get_mip_ha_virtual_network_information	<mip-ha-virtual-network-information>
show mobile-ip wimax release	<get-mip-wimax-release-information> get_mip_wimax_release_information	<mip-wimax-release-information>
show mpls admin-groups	<get-mpls-admin-group-information> get_mpls_admin_group_information	<mpls-admin-group-information>
show mpls call-admission-control	<get-mpls-call-admission-control-information> get_mpls_call_admission_control_information	<mpls-call-admission-control-information>
show mpls cspf	<get-mpls-cspf-information> get_mpls_cspf_information	<mpls-cspf-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (21 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show mpls diffserv-te	<get-mpls-diffserv-te-information> get_mpls_diffserv_te_information	<mpls-diffserv-te-information>
show mpls interface	<get-mpls-interface-information> get_mpls_interface_information	<mpls-interface-information>
show mpls lsp	<get-mpls-lsp-information> get_mpls_lsp_information	<mpls-lsp-information>
show mpls lsp defaults	<get-mpls-lsp-defaults-information> get_mpls_lsp_defaults_information	<mpls-lsp-defaults-information>
show mpls path	<get-mpls-path-information> get_mpls_path_information	<mpls-path-information>
show msdp source	<get-msdp-source-information> get_msdp_source_information	<pim-msdp-source-information>
show msdp source-active	<get-msdp-source-active-information> get_msdp_source_active_information	<pim-msdp-source-active-information>
show msdp statistics	<get-msdp-statistics-information> get_msdp_statistics_information	<pim-msdp-statistics-information>
show multicast backup-pe-groups	<get-multicast-backup-pe-groups-information> get_multicast_backup_pe_groups_information	<multicast-backup-pe-groups-information>
show multicast backup-pe-groups address	<get-multicast-backup-pe-address-information> get_multicast_backup_pe_address_information	<multicast-backup-pe-address-information>
show multicast flow-map	<get-multicast-flow-maps-information> get_multicast_flow_maps_information	<multicast-flow-maps-information>
show multicast interface	<get-multicast-interface-information> get_multicast_interface_information	<multicast-interface-information>
show multicast next-hops	<get-multicast-next-hops-information> get_multicast_next_hops_information	<multicast-next-hops-information>
show multicast pim-to-igmp-proxy	<get-multicast-pim-to-igmp-proxy-information> get_multicast_pim_to_igmp_proxy_information	<multicast-pim-to-igmp-proxy-information>
show multicast pim-to-mld-proxy	<get-multicast-pim-to-mld-proxy-information> get_multicast_pim_to_mld_proxy_information	<multicast-pim-to-mld-proxy-information>
show multicast route	<get-multicast-route-information> get_multicast_route_information	<multicast-route-information>
show multicast rpf	<get-multicast-rpf-information> get_multicast_rpf_information	<multicast-rpf-information>
show multicast scope	<get-multicast-scope-information> get_multicast_scope_information	<multicast-scope-information>
show multicast sessions	<get-multicast-sessions-information> get_multicast_sessions_information	<multicast-sessions-information>
show multicast snooping next-hops	<get-multicast-snooping-next-hops-information> get_multicast_snooping_next_hops_information	<multicast-next-hops-information>
show multicast snooping route	<get-multicast-snooping-route-information> get_multicast_snooping_route_information	<multicast-route-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (22 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show multicast statistics	<get-multicast-statistics-information> get_multicast_statistics_information	<multicast-statistics-information>
show multicast usage	<get-multicast-usage-information> get_multicast_usage_information	<multicast-usage-information>
show mvpn instance	<get-mvpn-instance-information> get_mvpn_instance_information	<mvpn-instance-information>
show network-access aaa statistics	<get-aaa-module-statistics> get_aaa_module_statistics	<aaa-module-statistics>
show network-access aaa subscribers	<get-aaa-subscriber-table> get_aaa_subscriber_table	<aaa-subscriber-table>
show network-access aaa subscribers statistics	<get-aaa-subscriber-statistics> get_aaa_subscriber_statistics	<aaa-subscriber-statistics>
show network-access address-assignment pool	<get-address-assignment-pool-table> get_address_assignment_pool_table	<address-assignment-pool-table>
show network-access requests pending	<get-authentication-pending-table> get_authentication_pending_table	<auth-pending-table>
show network-access requests statistics	<get-authentication-statistics> get_authentication_statistics	<auth-statistics>
show network-access securid-node-secret-file	<node-secret-file-table> node_secret_file_table	<node-secret-file-table>
show oam ethernet connectivity-fault-management delay-statistics	<get-cfm-delay-statistics> get_cfm_delay_statistics	<cfm-delay-statistics>
show oam ethernet connectivity-fault-management forwarding-state instance	<get-cfm-forwarding-state-instance-information> get_cfm_forwarding_state_instance_information	<cfm-flood-instance-information>
show oam ethernet connectivity-fault-management forwarding-state interface	<get-cfm-forwarding-state-interface-information> get_cfm_forwarding_state_interface_information	<cfm-flood-interface-information>
show oam ethernet connectivity-fault-management interfaces	<get-cfm-interfaces-information> get_cfm_interfaces_information	<cfm-interface>
show oam ethernet connectivity-fault-management mep-database	<get-cfm-mep-database> get_cfm_mep_database	<cfm-mep-database>
show oam ethernet connectivity-fault-management mep-statistics	<get-cfm-mep-statistics> get_cfm_mep_statistics	<cfm-mep-statistics>
show oam ethernet connectivity-fault-management mip	<get-cfm-mip-information> get_cfm_mip_information	<cfm-mip-information>
show oam ethernet connectivity-fault-management path-database	<get-cfm-linktrace-path-database> get_cfm_linktrace_path_database	<cfm-linktrace-path-database>
show oam ethernet evc	<get-evc-infromation> get_evc_infromation	<elmi-evc-information>
show oam ethernet link-fault-management	<get-lfmd-information> get_lfmd_information	<lfmd-information>
show oam ethernet lmi	<get-elmi-information> get_elmi_information	<elmi-interface-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (23 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show oam ethernet lmi statistics	<get-elmi-statistics> get_elmi_statistics	<elmi-interface-statistics>
show ospf database	<get-ospf-database-information> get_ospf_database_information	<ospf-database-information>
show ospf interface	<get-ospf-interface-information> get_ospf_interface_information	<ospf-interface-information>
show ospf io-statistics	<get-ospf-io-statistics-information> get_ospf_io_statistics_information	<ospf-io-statistics-information>
show ospf log	<get-ospf-log-information> get_ospf_log_information	<ospf-log-information>
show ospf neighbor	<get-ospf-neighbor-information> get_ospf_neighbor_information	<ospf-neighbor-information>
show ospf overview	<get-ospf-overview-information> get_ospf_overview_information	<ospf-overview-information>
show ospf route	<get-ospf-route-information> get_ospf_route_information	<ospf-route-information>
show ospf statistics	<get-ospf-statistics-information> get_ospf_statistics_information	<ospf-statistics-information>
show ospf3 database	<get-ospf3-database-information> get_ospf3_database_information	<ospf3-database-information>
show ospf3 interface	<get-ospf3-interface-information> get_ospf3_interface_information	<ospf3-interface-information>
show ospf3 io-statistics	<get-ospf3-io-statistics-information> get_ospf3_io_statistics_information	<ospf3-io-statistics-information>
show ospf3 log	<get-ospf3-log-information> get_ospf3_log_information	<ospf3-log-information>
show ospf3 neighbor	<get-ospf3-neighbor-information> get_ospf3_neighbor_information	<ospf3-neighbor-information>
show ospf3 overview	<get-ospf3-overview-information> get_ospf3_overview_information	<ospf3-overview-information>
show ospf3 route	<get-ospf3-route-information> get_ospf3_route_information	<ospf3-route-information>
show ospf3 statistics	<get-ospf3-statistics-information> get_ospf3_statistics_information	<ospf3-statistics-information>
show passive-monitoring	<get-passive-monitoring-information> get_passive_monitoring_information	<passive-monitoring-information>
show passive-monitoring error	<get-passive-monitoring-error-information> get_passive_monitoring_error_information	<passive-monitoring-error-information>
show passive-monitoring flow	<get-passive-monitoring-flow-information> get_passive_monitoring_flow_information	<passive-monitoring-flow-information>
show passive-monitoring memory	<get-passive-monitoring-memory-information> get_passive_monitoring_memory_information	<passive-monitoring-memory-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (24 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show passive-monitoring status	<get-passive-monitoring-status-information> get_passive_monitoring_status_information	<passive-monitoring-status-information>
show passive-monitoring usage	<get-passive-monitoring-usage-information> get_passive_monitoring_usage_information	<passive-monitoring-usage-information>
show pfe statistics traffic	<get-pfe-statistics> get_pfe_statistics	<pfe-statistics>
show pfe terse	<get-pfe-information> get_pfe_information	<pfe-information>
show pgm negative-acknowledgments	<get-pgm-nak> get_pgm_nak	<pgm-nak>
show pgm source-path-messages	<get-pgm-source-path-messages> get_pgm_source_path_messages	<pgm-source-path-messages>
show pgm statistics	<get-pgm-statistics> get_pgm_statistics	<pgm-statistics-information>
show pim bootstrap	<get-pim-bootstrap-information> get_pim_bootstrap_information	<pim-bootstrap-information>
show pim interfaces	<get-pim-interfaces-information> get_pim_interfaces_information	<pim-interfaces-information>
show pim join	<get-pim-join-information> get_pim_join_information	<pim-join-information>
show pim mdt	<get-pim-mdt-information> get_pim_mdt_information	<pim-mdt-information>
show pim mvpn	<get-pim-mvpn-information> get_pim_mvpn_information	<pim-mvpn-information>
show pim neighbors	<get-pim-neighbors-information> get_pim_neighbors_information	<pim-neighbors-information>
show pim rps	<get-pim-rps-information> get_pim_rps_information	<pim-rps-information>
show pim source	<get-pim-source-information> get_pim_source_information	<pim-source-information>
show pim statistics	<get-pim-statistics-information> get_pim_statistics_information	<pim-statistics-information>
show ppp address-pool	<get-ppp-address-pool-inforamation> get_ppp_address_pool_inforamation	<ppp-address-pool-information>
show ppp interface	<get-ppp-interface-information> get_ppp_interface_information	<ppp-interface-information>
show ppp statistics	<get-ppp-statistics-information> get_ppp_statistics_information	<ppp-statistics-information>
show ppp summary	<get-ppp-summary-information> get_ppp_summary_information	<ppp-summary-information>
show pppoe interfaces	<get-pppoe-interface-information> get_pppoe_interface_information	<pppoe-interface-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (25 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show pppoe statistics	<get-pppoe-statistics-information> get_pppoe_statistics_information	<pppoe-statistics-information>
show pppoe version	<get-pppoe-version> get_pppoe_version	<pppoe-version>
show rip general-statistics	<get-rip-general-statistics-information> get_rip_general_statistics_information	<rip-general-statistics-information>
show rip neighbor	<get-rip-neighbor-information> get_rip_neighbor_information	<rip-neighbor-information>
show rip statistics	<get-rip-statistics-information> get_rip_statistics_information	<rip-statistics-information>
show route	<get-route-information> get_route_information	<route-information>
show route export	<get-rtexport-table-information> get_rtexport_table_information	<rtexport-table-information>
show route export instance	<get-rtexport-instance-information> get_rtexport_instance_information	<rtexport-instance-information>
show route export vrf-target	<get-rtexport-target-information> get_rtexport_target_information	<rtexport-target-information>
show route flow validation	<get-rtflow-dep-information> get_rtflow_dep_information	<rtflow-dep-information>
show route forwarding-table	<get-forwarding-table-information> get_forwarding_table_information	<forwarding-table-information>
show route instance	<get-instance-information> get_instance_information	<instance-information>
show route instance operational	<get-operational-routing-instance-information> get_operational_routing_instance_information	<operational-routing-instance-information>
show route summary	<get-route-summary-information> get_route_summary_information	<route-summary-information>
show rsvp interface	<get-rsvp-interface-information> get_rsvp_interface_information	<rsvp-interface-information>
show rsvp neighbor	<get-rsvp-neighbor-information> get_rsvp_neighbor_information	<rsvp-neighbor-information>
show rsvp session	<get-rsvp-session-information> get_rsvp_session_information	<rsvp-session-information>
show rsvp statistics	<get-rsvp-statistics-information> get_rsvp_statistics_information	<rsvp-statistics-information>
show rsvp version	<get-rsvp-version-information> get_rsvp_version_information	<rsvp-version-information>
show sap listen	<get-sap-listen-information> get_sap_listen_information	<sap-listen-information>
show security idp application-identification application-system-cache	<get-idp-application-system-cache> get_idp_application_system_cache	<idp-application-system-cache-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (26 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show security idp application-statistics	<get-idp-applications-information> get_idp_applications_information	<idp-applications-information>
show security idp attack table	<get-idp-attack-table-information> get_idp_attack_table_information	<idp-attack-table-information>
show security idp counters	<get-idp-counter-information> get_idp_counter_information	<idp-counter-information>
show security idp memory	<get-idp-memory-information> get_idp_memory_information	<idp-memory-information>
show security idp security-package-version	<get-idp-security-package-information> get_idp_security_package_information	<idp-security-package-information>
show security idp ssl-inspection key	<get-idp-ssl-key-information> get_idp_ssl_key_information	<idp-ssl-key-information>
show security idp ssl-inspection session-id-cache	<get-idp-ssl-session-cache-information> get_idp_ssl_session_cache_information	<get-idp-ssl-session-cache-information>
show security idp status	<get-idp-status-information> get_idp_status_information	<idp-status-information>
show services accounting	<get-service-accounting-information> get_service_accounting_information	<service-accounting-information>
show services accounting aggregation	<get-service-accounting-aggregation-information> get_service_accounting_aggregation_information	<service-accounting-aggregation-information>
show services accounting aggregation as	<get-service-accounting-aggregation-as-information> get_service_accounting_aggregation_as_information	<service-accounting-aggregation-as-information>
show services accounting aggregation destination-prefix	<get-service-accounting-aggregation-destination-prefix-information> get_service_accounting_aggregation_destination_prefix_information	<service-accounting-aggregation-destination-prefix-information>
show services accounting aggregation protocol-port	<get-service-accounting-aggregation-protocol-port-information> get_service_accounting_aggregation_protocol_port_information	<service-accounting-aggregation-protocol-port-information>
show services accounting aggregation source-destination-prefix	<get-service-accounting-aggregation-source-destination-prefix-information> get_service_accounting_aggregation_source_destination_prefix_information	<service-accounting-aggregation-source-destination-prefix-information>
show services accounting aggregation source-prefix	<get-service-accounting-aggregation-source-prefix-information> get_service_accounting_aggregation_source_prefix_information	<service-accounting-aggregation-source-prefix-information>
show services accounting aggregation template	<get-service-accounting-aggregation-template-information> get_service_accounting_aggregation_template_information	<service-accounting-aggregation-template-information>
show services accounting errors	<get-service-accounting-errors-information> get_service_accounting_errors_information	<service-accounting-errors-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (27 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services accounting flow	<get-service-accounting-flow-information> get_service_accounting_flow_information	<service-accounting-flow-information>
show services accounting flow-detail	<get-service-accounting-flow-detail> get_service_accounting_flow_detail	<service-accounting-flow-detail>
show services accounting memory	<get-service-accounting-memory-information> get_service_accounting_memory_information	<service-accounting-memory-information>
show services accounting packet-size-distribution	<get-packet-distribution-information> get_packet_distribution_information	<packet-distribution-information>
show services accounting status	<get-service-accounting-status-information> get_service_accounting_status_information	<service-accounting-status-information>
show services accounting usage	<get-service-accounting-usage-information> get_service_accounting_usage_information	<service-accounting-usage-information>
show services application-identification application-system-cache	<get-appid-application-system-cache> get_appid_application_system_cache	<appid-application-system-cache-information>
show services application-identification counter	<get-appid-counter> get_appid_counter	<appid-counter>
show services application-identification version	<get-appid-package-version> get_appid_package_version	<appid-package-version>
show services border-signaling-gateway admission-control	<get-service-border-signaling-gateway-statistics-admission-control> get_service_border_signaling_gateway_statistics_admission_control	<bsg-statistics-admission-control>
show services border-signaling-gateway by-contact	<get-service-border-signaling-gateway-information-by-contact> get_service_border_signaling_gateway_information_by_contact	<bsg-information-details>
show services border-signaling-gateway by-request-uri	<get-service-border-signaling-gateway-information-by-request-uri> get_service_border_signaling_gateway_information_by_request_uri	<bsg-information-details>
show services border-signaling-gateway calls	<get-service-border-signaling-gateway-statistics-calls> get_service_border_signaling_gateway_statistics_calls	<bsg-statistics-calls-details>
show services border-signaling-gateway calls-failed	<get-service-border-signaling-gateway-statistics-calls-failed> get_service_border_signaling_gateway_statistics_calls_failed	<bsg-statistics-calls-failed-details>
show services cos statistics	<get-service-cos-statistics-information> get_service_cos_statistics_information	<service-cos-statistics-information>
show services cos statistics diffserv	<get-service-cos-diffserv-statistics> get_service_cos_diffserv_statistics	<service-cos-diffserv-statistics>
show services cos statistics forwarding-class	<get-service-cos-forwarding-class-statistics> get_service_cos_forwarding_class_statistics	<service-cos-forwarding-class-statistics>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (28 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services crtp	<get-service-crtp-params-information> get_service_crtp_params_information	<service-crtp-params-information>
show services crtp extensive	<get-service-crtp-extensive-information> get_service_crtp_extensive_information	<service-crtp-extensive-information>
show services crtp flows	<get-service-crtp-flow-table-information> get_service_crtp_flow_table_information	<service-crtp-flow-table-information>
show services dynamic-flow-capture content-destination	<get-services-dynamic-flow-capture-content-destination-information> get_services_dynamic_flow_capture_content_destination_information	<services-dynamic-flow-capture-content-destination-information>
show services dynamic-flow-capture control-source	<get-services-dynamic-flow-capture-control-source-information> get_services_dynamic_flow_capture_control_source_information	<services-dynamic-flow-capture-control-source-information>
show services fips pic status	<get-fips-pic-status-information> get_fips_pic_status_information	<fips-pic-status-information>
show services flow-collector	<get-services-flow-collector-information> get_services_flow_collector_information	<services-flow-collector-information>
show services flow-collector file	<get-services-flow-collector-file-information> get_services_flow_collector_file_information	<services-flow-collector-file-information>
show services flow-collector input	<get-services-flow-collector-input-information> get_services_flow_collector_input_information	<services-flow-collector-input-information>
show services flow-table statistics	<get-flow-table-statistics-information> get_flow_table_statistics_information	<flow-table-statistics-information>
show services flows	<get-service-msp-flow-table-information> get_service_msp_flow_table_information	<service-sfw-flow-table-information>
show services ggsn diagnostics pdp	<get-pdp-diagnostics-per-apn> get_pdp_diagnostics_per_apn	<pdp-diagnostics-per-apn>
show services ggsn statistics	<get-ggsn-statistics> get_ggsn_statistics	<ggsn-statistics>
show services ggsn statistics apn	<get-ggsn-apn-statistics-information> get_ggsn_apn_statistics_information	<apn-statistics-information>
show services ggsn statistics charging	<get-ggsn-charging-statistics-information> get_ggsn_charging_statistics_information	<ggsn-charging-statistics-information>
show services ggsn statistics gtp	<get-ggsn-gtp-statistics-information> get_ggsn_gtp_statistics_information	<gtp-statistics-information>
show services ggsn statistics gtp-prime	<get-ggsn-gtp-prime-statistics-information> get_ggsn_gtp_prime_statistics_information	<gtp-prime-statistics-information>
show services ggsn statistics imsi	<get-ggsn-imsi-user-information> get_ggsn_imsi_user_information	<mobile-user-information>
show services ggsn statistics l2tp-tunnel	<get-ggsn-l2tp-tunnel-statistics-information> get_ggsn_l2tp_tunnel_statistics_information	<l2tp-tunnel-statistics-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (29 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services ggsn statistics radius	<get-ggsn-radius-statistics-information> get_ggsn_radius_statistics_information	<ggsn-radius-statistics-information>
show services ggsn statistics sgsn	<get-ggsn-sgsn-statistics-information> get_ggsn_sgsn_statistics_information	<sgsn-statistics-information>
show services ggsn status	<get-ggsn-interface-information> get_ggsn_interface_information	<ggsn-interface-information>
show services ggsn trace all	<get-ggsn-trace> get_ggsn_trace	<call-trace-information>
show services ggsn trace imsi	<get-ggsn-imsi-trace> get_ggsn_imsi_trace	<call-trace-information>
show services ggsn trace msisdn	<get-ggsn-msisdn-trace> get_ggsn_msisdn_trace	<call-trace-information>
show services ids destination-table	<get-service-ids-destination-table-information> get_service_ids_destination_table_information	<service-ids-flow-table-information>
show services ids pair-table	<get-service-ids-pair-table-information> get_service_ids_pair_table_information	<service-ids-flow-table-information>
show services ids source-table	<get-service-ids-source-table-information> get_service_ids_source_table_information	<service-ids-flow-table-information>
show services ipsec-vpn ike security-associations	<get-ike-services-security-associations-information> get_ike_services_security_associations_information	<ike-security-associations-information>
show services ipsec-vpn ipsec security-associations	<get-services-security-associations-information> get_services_security_associations_information	<services-security-associations-information>
show services ipsec-vpn ipsec statistics	<get-services-ipsec-statistics-information> get_services_ipsec_statistics_information	<ipsec-total-statistics-information>
show services l2tp multilink	<get-l2tp-multilink-information> get_l2tp_multilink_information	<services-l2tp-multilink-information>
show services l2tp radius accounting servers	<get-services-l2tp-radius-accounting-servers-information> get_services_l2tp_radius_accounting_servers_information	<services-l2tp-radius-accounting-servers-information>
show services l2tp radius accounting statistics	<get-services-l2tp-radius-accounting-statistics-information> get_services_l2tp_radius_accounting_statistics_information	<services-l2tp-radius-accounting-statistics-information>
show services l2tp radius authentication servers	<get-services-l2tp-radius-authentication-servers-information> get_services_l2tp_radius_authentication_servers_information	<services-l2tp-radius-authentication-servers-information>
show services l2tp radius authentication statistics	<get-services-l2tp-radius-authentication-statistics-information> get_services_l2tp_radius_authentication_statistics_information	<services-l2tp-radius-authentication-statistics-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (30 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services l2tp radius servers	<get-services-l2tp-radius-authentication-accounting-servers-information> get_services_l2tp_radius_authentication_accounting_servers_information	<services-l2tp-radius-authentication-accounting-servers-information>
show services l2tp radius statistics	<get-services-l2tp-radius-authentication-accounting-statistics-information> get_services_l2tp_radius_authentication_accounting_statistics_information	<services-l2tp-radius-authentication-accounting-statistics-information>
show services l2tp session	<get-l2tp-session-information> get_l2tp_session_information	<service-l2tp-session-information>
show services l2tp summary	<get-l2tp-summary-information> get_l2tp_summary_information	<service-l2tp-summary-information>
show services l2tp tunnel	<get-l2tp-tunnel-information> get_l2tp_tunnel_information	<service-l2tp-tunnel-information>
show services link-services cpu-usage	<get-link-services-cpu-usage> get_link_services_cpu_usage	<lsqinfo-cpu-usage-information>
show services nat ipv6-multicast-interfaces	<get-service-nat-ipv6-multicast-information> get_service_nat_ipv6_multicast_information	<service-nat-ipv6-multicast-interfaces-information>
show services nat pool	<get-service-nat-pool-information> get_service_nat_pool_information	<service-nat-pool-information>
show services pgcp active-configuration	<get-pgcpd-active-configuration> get_pgcpd_active_configuration	<pgcpd-active-configuration>
show services pgcp active-configuration gateway	<get-service-pgcp-active-configuration-gateway> get_service_pgcp_active_configuration_gateway	<service-pgcp-active-configuration-gateway>
show services pgcp conversations	<get-service-pgcp-conversation-information> get_service_pgcp_conversation_information	<service-pgcp-conversation-information>
show services pgcp conversations gateway	<get-service-pgcp-conversation-information-gateway> get_service_pgcp_conversation_information_gateway	<service-pgcp-conversation–gateway-information>
show services pgcp flows	<get-service-pgcp-flow-table-information> get_service_pgcp_flow_table_information	<service-pgcp-flow-table-information>
show services pgcp flows gateway	<get-service-pgcp-flow-table-information-gateway> get_service_pgcp_flow_table_information_gateway	<service-pgcp-flow-table-gateway-information>
show services pgcp gate	<get-service-pgcp-gate> get_service_pgcp_gate	<service-pgcp-gate>
show services pgcp gate gateway	<get-service-pgcp-gate-gateway> get_service_pgcp_gate_gateway	<service-pgcp-gate-gateway>
show services pgcp gates	<get-service-pgcp-gates> get_service_pgcp_gates	<service-pgcp-gates>
show services pgcp gates gateway	<get-service-pgcp-gates-gateway> get_service_pgcp_gates_gateway	<service-pgcp-gates-gateway>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (31 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services pgcp root-termination	<get-services-pgcpd-root-termination> get_services_pgcpd_root_termination	<services-pgcpd-root-termination>
show services pgcp root-termination gateway	<get-services-pgcpd-root-termination-gateway> get_services_pgcpd_root_termination_gateway	<services-pgcpd-root-termination-gateway>
show services pgcp statistics	<get-service-pgcp-statistics> get_service_pgcp_statistics	<service-pgcp-statistics>
show services pgcp statistics gateway	<get-service-pgcp-statistics-gateway> get_service_pgcp_statistics_gateway	<service-pgcp-statistics-gateway>
show services pgcp terminations	<get-service-pgcp-terminations> get_service_pgcp_terminations	<service-pgcp-terminations>
show services pgcp terminations gateway	<get-service-pgcp-terminations-gateway> get_service_pgcp_terminations_gateway	<service-pgcp-terminations-gateway>
show services rpm active-servers	<get-active-servers> get_active_servers	<active-servers>
show services rpm history-results	<get-history-results> get_history_results	<history-results>
show services rpm probe-results	<get-probe-results> get_probe_results	<probe-results>
show services service-identification header-redirect statistics	<get-header-redirect-set-statistics-information> get_header_redirect_set_statistics_information	<header-redirect-set-statistics-information>
show services service-identification statistics	<get-service-identification-statistics-information> get_service_identification_statistics_information	<service-identification-statistics-information>
show services service-identification uri-redirect statistics	<get-uri-redirect-set-statistics-information> get_uri_redirect_set_statistics_information	<uri-redirect-set-statistics-information>
show services service-sets cpu-usage	<get-service-set-cpu-statistics> get_service_set_cpu_statistics	<service-set-cpu-statistics-information>
show services service-sets memory-usage	<get-service-set-memory-statistics> get_service_set_memory_statistics	<service-set-memory-statistics-information>
show services service-sets plug-ins	<get-service-set-plugin-summary> get_service_set_plugin_summary	<service-set-plugin-summary>
show services service-sets statistics packet-drops	<get-service-set-packet-drop-statistics> get_service_set_packet_drop_statistics	<service-set-packet-drop-statistics>
show services service-sets statistics tcp-mss	<get-service-set-tcp-mss-statistics> get_service_set_tcp_mss_statistics	<service-set-tcp-mss-statistics>
show services service-sets summary	<get-service-set-summary-information> get_service_set_summary_information	<service-set-summary-information>
show services stateful-firewall conversations	<get-service-sfw-conversation-information> get_service_sfw_conversation_information	<service-sfw-conversation-information>
show services stateful-firewall flows	<get-service-sfw-flow-table-information> get_service_sfw_flow_table_information	<service-sfw-flow-table-information>
show services stateful-firewall sip-call	<get-service-sfw-sip-call-information> get_service_sfw_sip_call_information	<service-sfw-sip-call-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (32 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services stateful-firewall sip-register	<get-service-sfw-sip-register-information> get_service_sfw_sip_register_information	<service-sfw-sip-register-information>
show services stateful-firewall statistics	<get-service-sfw-statistics-information> get_service_sfw_statistics_information	<service-sfw-statistics-information>
show snmp health-monitor	<get-health-monitor-information> get_health_monitor_information	<health-monitor-information>
show snmp health-monitor alarms	<get-health-monitor-alarm-information> get_health_monitor_alarm_information	<rmon-alarm-information>
show snmp health-monitor logs	<get-health-monitor-log-information> get_health_monitor_log_information	<rmon-log-information>
show snmp inform-statistics	<get-snmp-inform-statistics> get_snmp_inform_statistics	<snmp-inform-statistics>
show snmp mib get	<get-snmp-object> get_snmp_object	<snmp-object-information>
show snmp mib get-next	<next-snmp-object> next_snmp_object	<snmp-object-information>
show snmp mib walk	<walk-snmp-object> walk_snmp_object	<snmp-object-information>
show snmp rmon	<get-rmon-information> get_rmon_information	<rmon-information>
show snmp rmon alarms	<get-rmon-alarm-information> get_rmon_alarm_information	<rmon-alarm-information>
show snmp rmon events	<get-rmon-event-information> get_rmon_event_information	<rmon-event-information>
show snmp rmon history	<get-rmon-history-information> get_rmon_history_information	<rmon-history-information>
show snmp rmon logs	<get-rmon-log-information> get_rmon_log_information	<rmon-log-information>
show snmp statistics	<get-snmp-information> get_snmp_information	<snmp-statistics>
show snmp v3	<get-snmp-v3-information> get_snmp_v3_information	<snmp-v3-information>
show snmp v3 access	<get-snmp-v3-access-information> get_snmp_v3_access_information	<snmp-v3-access-information>
show snmp v3 community	<get-snmp-v3-community-information> get_snmp_v3_community_information	<snmp-v3-community-information>
show snmp v3 general	<get-snmp-v3-general-information> get_snmp_v3_general_information	<snmp-v3-general-information>
show snmp v3 groups	<get-snmp-v3-group-information> get_snmp_v3_group_information	<snmp-v3-group-information>
show snmp v3 notify	<get-snmp-v3-notify-information> get_snmp_v3_notify_information	<snmp-v3-notify-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (33 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show snmp v3 notify filter	<get-snmp-v3-notify-filter-information> get_snmp_v3_notify_filter_information	<snmp-v3-notify-filter-information>
show snmp v3 target	<get-snmp-v3-target-information> get_snmp_v3_target_information	<snmp-v3-target-information>
show snmp v3 target address	<get-snmp-v3-target-address-information> get_snmp_v3_target_address_information	<snmp-v3-target-address-information>
show snmp v3 target parameters	<get-snmp-v3-target-parameters-information> get_snmp_v3_target_parameters_information	<snmp-v3-target-parameters-information>
show snmp v3 users	<get-snmp-v3-usm-user-information> get_snmp_v3_usm_user_information	<snmp-v3-usm-user-information>
show subscribers	<get-subscribers> get_subscribers	<subscriber>
show system alarms	<get-system-alarm-information> get_system_alarm_information	<alarm-information>
show system commit	<get-commit-information> get_commit_information	<commit-information>
show system configuration archival	<get-system-archival> get_system_archival	<directory-list>
show system configuration rescue	<get-rescue-information> get_rescue_information	<rescue-information>
show system core-dumps core-file-info	<get-core-file-information> get_core_file_information	<core-information>
show system directory-usage	<get-directory-usage-information> get_directory_usage_information	<directory-usage-information>
show system firmware	<get-system-firmware-information> get_system_firmware_information	<system-firmware-information>
show system license	<get-license-summary-information> get_license_summary_information	<license-summary-information>
show system license installed	<get-license-information> get_license_information	<license-information>
show system license keys	<get-license-key-information> get_license_key_information	<license-key-information>
show system license usage	<get-license-usage-summary> get_license_usage_summary	<license-usage-summary>
show system name-resolution	<get-name-resolution-info> get_name_resolution_info	<name-resolution-info>
show system processes health	<get-process-health-information> get_process_health_information	<process-health-information>
show system resource-cleanup processes	<get-system-resource-cleanup-processes-information> get_system_resource_cleanup_processes_information	<system-resource-cleanup-processes-information>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (34 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show system rollback	<get-rollback-information> get_rollback_information	<rollback-information>
show system services dhcp binding	<get-dhcp-binding-information> get_dhcp_binding_information	<dhcp-binding-information>
show system services dhcp conflict	<get-dhcp-conflict-information> get_dhcp_conflict_information	<dhcp-conflict-information>
show system services dhcp global	<get-dhcp-global-information> get_dhcp_global_information	<dhcp-global-information>
show system services dhcp pool	<get-dhcp-pool-information> get_dhcp_pool_information	<dhcp-pool-information>
show system services dhcp statistics	<get-dhcp-statistics-information> get_dhcp_statistics_information	<dhcp-statistics-information>
show system services reverse	<get-system-services-reverse-information> get_system_services_reverse_information	<system-services-reverse-information>
show system services service-deployment	<get-service-deployment-service-information> get_service_deployment_service_information	<service-deployment-service-information>
show system snapshot	<get-snapshot-information> get_snapshot_information	<snapshot-information>
show system software backup	<get-package-backup-information> get_package_backup_information	<package-backup-information>
show system statistics	<get-statistics-information> get_statistics_information	<statistics>
show system storage	<get-system-storage> get_system_storage	<system-storage-information>
show system switchover	<get-switchover-information> get_switchover_information	<switchover-information>
show system uptime	<get-system-uptime-information> get_system_uptime_information	<system-uptime-information>
show system users	<get-system-users-information> get_system_users_information	<system-users-information>
show ted database	<get-ted-database-information> get_ted_database_information	<ted-database-information>
show ted link	<get-ted-link-information> get_ted_link_information	<ted-link-information>
show ted protocol	<get-ted-protocol-information> get_ted_protocol_information	<ted-protocol-information>
show version	<get-software-information> get_software_information	<software-information>
show vpls connections	<get-vpls-connection-information> get_vpls_connection_information	<vpls-connection-information>
show vpls flood event-queue	<get-vpls-event-queue-information> get_vpls_event_queue_information	<l2ald-vpls-flood-event-queue>

Table 3: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (35 of 35)

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show vpls flood route all-ce-flood	<get-vpls-all-ce-flood-route-information> get_vpls_all_ce_flood_route_information	<l2ald-vpls-flood-route-information>
show vpls flood route all-flood	<get-vpls-all-flood-route-information> get_vpls_all_flood_route_information	<l2ald-vpls-flood-route-information>
show vpls flood route alt-root-flood	<get-vpls-alt-root-flood-route-information> get_vpls_alt_root_flood_route_information	<l2ald-vpls-flood-route-information>
show vpls flood route ce-flood	<get-vpls-ce-flood-route-information> get_vpls_ce_flood_route_information	<l2ald-vpls-flood-route-information>
show vpls flood route mlp-flood	<get-vpls-mlp-flood-route-information> get_vpls_mlp_flood_route_information	<l2ald-vpls-flood-route-information>
show vpls flood route re-flood	<get-vpls-re-flood-route-information> get_vpls_re_flood_route_information	<l2ald-vpls-flood-route-information>
show vpls mac-table	<get-vpls-mac-table> get_vpls_mac_table	NONE
show vpls mac-table interface	<get-vpls-interface-mac-table> get_vpls_interface_mac_table	NONE
show vpls statistics	<get-vpls-statistics-information> get_vpls_statistics_information	<vpls-statistics-information>
test access profile	<get-radius-profile-access-test-result> get_radius_profile_access_test_result	<radius-profile-access-test-result>
test access radius-server	<get-radius-server-access-test-result> get_radius_server_access_test_result	<radius-access-server-test-result>
traceroute	<traceroute> traceroute	NONE
traceroute ethernet	<request-traceroute-ethernet> request_traceroute_ethernet	<ethtraceroute-results>

Table 4 maps JUNOS XML operational request tag elements to response tag elements and CLI commands.

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (1 of 21)

Request Tag Element	Response Tag Element	CLI Command
<abort-in-service-upgrade>	NONE	request system software abort in-service-upgrade
<check-in-service-upgrade>	NONE	request system software validate in-service-upgrade
<clear-aaa-subscriber-table-specific-statistics>	NONE	clear network-access aaa subscriber statistics
<clear-aaa-subscriber-table>	NONE	clear network-access aaa subscriber
<clear-ancp-neighbor-connection>	<ancp-neighbor-information>	clear ancp neighbor
<clear-ancp-subscriber-identifier-information>	<ancp-subscriber-identifier-information>	clear ancp subscriber identifier
<clear-appid-application-system-cache>	<clear-appid-application-system-cache-information>	clear services application-identification application-system-cache

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (2 of 21)

Request Tag Element	Response Tag Element	CLI Command
<clear-appid-counter>	<clear-appid-counter>	clear services application-identification counter
<clear-arp-table>	<clear-arp-table-results>	clear arp
<clear-authentication-pending-table>	NONE	clear network-access requests pending
<clear-authentication-statistics>	NONE	clear network-access requests statistics
<clear-bgp-damping>	NONE	clear bgp damping
<clear-bgp-neighbor>	NONE	clear bgp neighbor
<clear-bgp-table>	NONE	clear bgp table
<clear-binding-all>	NONE	clear mobile-ip binding all
<clear-binding-ip>	NONE	clear mobile-ip binding ip-address
<clear-binding-nai>	NONE	clear mobile-ip binding nai
<clear-bridge-interface-mac-table>	NONE	clear bridge mac-table interface
<clear-bridge-mac-table>	NONE	clear bridge mac-table
<clear-cfm-delay-statistics>	NONE	clear oam ethernet connectivity-fault-management delay-statistics
<clear-cfm-linktrace-path-database>	NONE	clear oam ethernet connectivity-fault-management path-database
<clear-cfm-statistics>	NONE	clear oam ethernet connectivity-fault-management statistics
<clear-database-replication-statistics-information>	NONE	clear database-replication statistics
<clear-dhcp-binding-information>	NONE	clear system services dhcp binding
<clear-dhcp-conflict-information>	NONE	clear system services dhcp conflict
<clear-dhcp-relay-binding-information>	NONE	clear dhcp relay binding
<clear-dhcp-relay-statistics-information>	NONE	clear dhcp relay statistics
<clear-dhcp-server-binding-information>	NONE	clear dhcp server binding
<clear-dhcp-statistics-information>	NONE	clear system services dhcp statistics
<clear-diameter-function>	NONE	clear diameter function
<clear-diameter-peer>	NONE	clear diameter peer
<clear-dot1x-interface-session>	<dot1x-interface-session>	clear dot1x interface
<clear-dot1x-mac-session>	<dot1x-mac-session>	clear dot1x mac-address
<clear-elmi-statistics>	NONE	clear oam ethernet lmi statistics
<clear-helper-statistics-information>	NONE	clear helper statistics
<clear-helper-statistics-information>	NONE	clear helper statistics
<clear-idp-application-system-cache>	<clear-idp-application-system-cache-information>	clear security idp application-identification application-system-cache
<clear-idp-applications-information>	<idp-applications-information>	clear security idp application-statistics
<clear-idp-attack-table>	<clear-idp-attack-table-information>	clear security idp attack table
<clear-idp-counters-by-counter-class>	<clear-idp-counters-by-counter-class-information>	clear security idp counters

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (3 of 21)

Request Tag Element	Response Tag Element	CLI Command
<clear-idp-ssl-session-cache-information>	<clear-idp-ssl-session-cache-information>	clear security idp ssl-inspection session-id-cache
<clear-interfaces-statistics-all>	NONE	clear interfaces statistics all
<clear-interfaces-statistics>	NONE	clear interfaces statistics
<clear-ipv6-nd-information>	<ipv6-modify-nd>	clear ipv6 neighbors
<clear-isis-adjacency-information>	NONE	clear isis adjacency
<clear-isis-database-information>	NONE	clear isis database
<clear-isis-overload-information>	NONE	clear isis overload
<clear-isis-statistics-information>	NONE	clear isis statistics
<clear-lacp-interface-statistics>	NONE	clear lacp statistics interfaces
<clear-mpls-lsp-information>	NONE	clear mpls lsp
<clear-node-secret-file>	NONE	clear network-access securid-node-secret-file
<clear-ospf-database-information>	NONE	clear ospf database
<clear-ospf-io-statistics-information>	NONE	clear ospf io-statistics
<clear-ospf-neighbor-information>	NONE	clear ospf neighbor
<clear-ospf-overload-information>	NONE	clear ospf overload
<clear-ospf-statistics-information>	NONE	clear ospf statistics
<clear-ospf3-database-information>	NONE	clear ospf3 database
<clear-ospf3-io-statistics-information>	NONE	clear ospf3 io-statistics
<clear-ospf3-neighbor-information>	NONE	clear ospf3 neighbor
<clear-ospf3-overload-information>	NONE	clear ospf3 overload
<clear-ospf3-statistics-information>	NONE	clear ospf3 statistics
<clear-passive-monitoring-statistics>	NONE	clear passive-monitoring statistics
<clear-passive-monitoring>	NONE	clear passive-monitoring
<clear-ppp-statistics-information>	NONE	clear ppp statistics
<clear-reboot>	<clear-reboot-results>	clear system reboot
<clear-rsvp-counters-information>	NONE	clear rsvp statistics
<clear-rsvp-session-information>	NONE	clear rsvp session
<clear-server-statistics-information>	NONE	clear dhcp server statistics
<clear-service-border-signaling-gateway-statistics>	<service-border-signaling-gateway-drain-information>	clear services border-signaling-gateway statistics
<clear-service-msp-flow-ipaction-table>	<service-msp-flow-drain-information>	clear services flows ip-action
<clear-service-msp-flow-table-information>	<service-msp-flow-drain-information>	clear services flows
<clear-service-pgcp-gates-gateway>	<service-pgcp-gates-gateway-drain-information>	clear services pgcp gates gateway
<clear-service-pgcp-gates>	<service-pgcp-gates-drain-information>	clear services pgcp gates
<clear-service-pgcp-statistics-gateway>	<service-pgcp-statistics-gateway-drain-information>	clear services pgcp statistics gateway
<clear-service-pgcp-statistics>	<service-pgcp-statistics-drain-information>	clear services pgcp statistics

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (4 of 21)

Request Tag Element	Response Tag Element	CLI Command
<clear-service-set-packet-drop-statistics>	<service-set-packet-drop-statistics>	clear services service-sets statistics packet-drops
<clear-service-sfw-flow-table-information>	<service-sfw-flow-drain-information>	clear services stateful-firewall flows
<clear-service-sfw-sip-call-information>	<service-sfw-sip-call-drain-information>	clear services stateful-firewall sip-call
<clear-service-sfw-sip-register-information>	<service-sfw-sip-register-drain-information>	clear services stateful-firewall sip-register
<clear-services-dynamic-flow-capture-criteria>	<clear-services-dynamic-flow-capture-criteria>	clear services dynamic-flow-capture criteria
<clear-services-dynamic-flow-capture-sequence-number>	<clear-services-dynamic-flow-capture-sequence-number-results>	clear services dynamic-flow-capture sequence-number
<clear-services-flow-collector-information>	NONE	clear services flow-collector
<clear-services-flow-collector-statistics>	<clear-services-flow-collector-response>	clear services flow-collector statistics
<clear-system-commit>	NONE	clear system commit
<clear-system-services-reverse-information>	NONE	clear system services reverse
<clear-visitor-all>	NONE	clear mobile-ip visitor all
<clear-visitor-ip>	NONE	clear mobile-ip visitor ip-address
<clear-visitor-nai>	NONE	clear mobile-ip visitor nai
<clear-vpls-interface-mac-table>	NONE	clear vpls mac-table interface
<clear-vpls-mac-table>	NONE	clear vpls mac-table
<file-compare>	NONE	file compare
<file-copy>	NONE	file copy
<file-delete>	NONE	file delete
<file-list>	<directory-list>	file list
<file-rename>	NONE	file rename
<file-show>	<file-content>	file show
<get-aaa-module-statistics>	<aaa-module-statistics>	show network-access aaa statistics
<get-aaa-subscriber-statistics>	<aaa-subscriber-statistics>	show network-access aaa subscribers statistics
<get-aaa-subscriber-table>	<aaa-subscriber-table>	show network-access aaa subscribers
<get-accounting-profile-information>	<accounting-profile-information>	show accounting profile
<get-accounting-record-information>	<accounting-record-information>	show accounting records
<get-active-servers>	<active-servers>	show services rpm active-servers
<get-address-assignment-pool-table>	<address-assignment-pool-table>	show network-access address-assignment pool
<get-alarm-information>	<alarm-information>	show chassis alarms
<get-ancp-cos-information>	<ancp-cos-information>	show ancp cos
<get-ancp-cos-last-update-information>	<ancp-cos-information>	show ancp cos last-update
<get-ancp-cos-pending-information>	<ancp-cos-information>	show ancp cos pending-update
<get-ancp-neighbor-information>	<ancp-neighbor-information>	show ancp neighbor
<get-ancp-subscriber-information>	<ancp-subscriber-information>	show ancp subscriber
<get-appid-application-system-cache>	<appid-application-system-cache-information>	show services application-identification application-system-cache

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (5 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-appid-counter>	<appid-counter>	show services application-identification counter
<get-appid-package-version>	<appid-package-version>	show services application-identification version
<get-arp-table-information>	<arp-table-information>	show arp
<get-authentication-pending-table>	<auth-pending-table>	show network-access requests pending
<get-authentication-statistics>	<auth-statistics>	show network-access requests statistics
<get-authorization-information>	<authorization-information>	show cli authorization
<get-bfd-session-information>	<bfd-session-information>	show bfd session
<get-bgp-group-information>	<bgp-group-information>	show bgp group
<get-bgp-neighbor-information>	<bgp-information>	show bgp neighbor
<get-bgp-orf-information>	<bgp-orf-information>	show bgp neighbor orf
<get-bgp-rtf-information>	<bgp-rtf-information>	show bgp group rtf
<get-bgp-summary-information>	<bgp-information>	show bgp summary
<get-bgp-traffic-statistics-information>	<bgp-traffic-statistics-information>	show bgp group traffic-statistics
<get-bridge-domain-alt-root-flood-route-information>	<l2ald-bridge-domain-flood-route-information>	show bridge flood route alt-root-flood
<get-bridge-domain-bd-flood-route-information>	<l2ald-bridge-domain-flood-route-information>	show bridge flood route bd-flood
<get-bridge-domain-event-queue-information>	<l2ald-bridge-domain-flood-event-queue>	show bridge flood event-queue
<get-bridge-domain-mlp-flood-route-information>	<l2ald-bridge-domain-flood-route-information>	show bridge flood route mlp-flood
<get-bridge-domain-re-flood-route-information>	<l2ald-bridge-domain-flood-route-information>	show bridge flood route re-flood
<get-bridge-instance-information>	NONE	show bridge domain
<get-bridge-interface-mac-table>	NONE	show bridge mac-table interface
<get-bridge-mac-table>	NONE	show bridge mac-table
<get-bridge-statistics-information>	<bridge-statistics-information>	show bridge statistics
<get-certificates-information>	<certificates-information>	show ipsec certificates
<get-cfeb-information>	<scb-information>	show chassis cfeb
<get-cfm-delay-statistics>	<cfm-delay-statistics>	show oam ethernet connectivity-fault-management delay-statistics
<get-cfm-forwarding-state-instance-information>	<cfm-flood-instance-information>	show oam ethernet connectivity-fault-management forwarding-state instance
<get-cfm-forwarding-state-interface-information>	<cfm-flood-interface-information>	show oam ethernet connectivity-fault-management forwarding-state interface
<get-cfm-interfaces-information>	<cfm-interface>	show oam ethernet connectivity-fault-management interfaces
<get-cfm-linktrace-path-database>	<cfm-linktrace-path-database>	show oam ethernet connectivity-fault-management path-database
<get-cfm-mep-database>	<cfm-mep-database>	show oam ethernet connectivity-fault-management mep-database
<get-cfm-mep-statistics>	<cfm-mep-statistics>	show oam ethernet connectivity-fault-management mep-statistics

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (6 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-cfm-mip-information>	<cfm-mip-information>	show oam ethernet connectivity-fault-management mip
<get-chassis-inventory>	<chassis-inventory>	show chassis hardware
<get-chassis-location>	<chassis-location>	show chassis location
<get-checksum-information>	<checksum-information>	file checksum md5
<get-cli-tip>	NONE	help tip cli
<get-clock-synchronization-information>	<clock-synchronization-information>	show chassis synchronization
<get-commit-information>	<commit-information>	show system commit
<get-core-file-information>	<core-information>	show system core-dumps core-file-info
<get-cos-adaptive-shaper-information>	<cos-adaptive-shaper-information>	show class-of-service adaptive-shaper
<get-cos-classifier-information>	<cos-classifier-information>	show class-of-service classifier
<get-cos-classifier-table-information>	<cos-classifier-table-information>	show class-of-service forwarding-table classifier
<get-cos-classifier-table-map-information>	<cos-classifier-table-map-information>	show class-of-service forwarding-table classifier mapping
<get-cos-code-point-map-information>	<cos-code-point-map-information>	show class-of-service code-point-aliases
<get-cos-drop-profile-information>	<cos-drop-profile-information>	show class-of-service drop-profile
<get-cos-fabric-scheduler-map-information>	<cos-fabric-scheduler-map-information>	show class-of-service fabric scheduler-map
<get-cos-forwarding-class-information>	<cos-forwarding-class-information>	show class-of-service forwarding-class
<get-cos-forwarding-class-map-interface-table-information>	<cos-forwarding-class-map-inteface-table-information>	show class-of-service forwarding-table forwarding-class-map mapping
<get-cos-forwarding-class-map-table-information>	<cos-forwarding-class-map-table-information>	show class-of-service forwarding-table forwarding-class-map
<get-cos-fragmentation-map-information>	<cos-fragmentation-map-information>	show class-of-service fragmentation-map
<get-cos-fwtab-fabric-scheduler-map-information>	<cos-fwtab-fabric-scheduler-map-information>	show class-of-service forwarding-table fabric scheduler-map
<get-cos-information>	<cos-information>	show class-of-service
<get-cos-interface-map-information>	<cos-interface-information>	show class-of-service interface
<get-cos-interface-set-map-information>	<cos-interface-set-information>	show class-of-service interface-set
<get-cos-l2tp-session-map-information>	<cos-l2tp-session-information>	show class-of-service l2tp-session
<get-cos-loss-priority-map-information>	<cos-loss-priority-map-information>	show class-of-service loss-priority-map
<get-cos-loss-priority-map-table-binding-information>	<cos-loss-priority-map-table-binding-information>	show class-of-service forwarding-table loss-priority-map mapping
<get-cos-loss-priority-map-table-information>	<cos-loss-priority-map-table-information>	show class-of-service forwarding-table loss-priority-map
<get-cos-multi-destination-information>	<cos-multi-destination-information>	show class-of-service multi-destination
<get-cos-policer-table-map-information>	<cos-policer-table-map-information>	show class-of-service forwarding-table policer
<get-cos-red-information>	<cos-red-information>	show class-of-service forwarding-table drop-profile
<get-cos-rewrite-information>	<cos-rewrite-information>	show class-of-service rewrite-rule

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (7 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-cos-rewrite-table-information>	<cos-rewrite-table-information>	show class-of-service forwarding-table rewrite-rule
<get-cos-rewrite-table-map-information>	<cos-rewrite-table-map-information>	show class-of-service forwarding-table rewrite-rule mapping
<get-cos-routing-instance-map-information>	<cos-routing-instance-information>	show class-of-service routing-instance
<get-cos-scheduler-map-information>	<cos-scheduler-map-information>	show class-of-service scheduler-map
<get-cos-scheduler-map-table-information>	<cos-scheduler-map-table-information>	show class-of-service forwarding-table scheduler-map
<get-cos-shaper-table-map-information>	<cos-shaper-table-map-information>	show class-of-service forwarding-table shaper
<get-cos-table-information>	<cos-table-information>	show class-of-service forwarding-table
<get-cos-traffic-control-profile-information>	<cos-traffic-control-profile-information>	show class-of-service traffic-control-profile
<get-cos-translation-table-information>	<cos-translation-table-information>	show class-of-service forwarding-table translation-table
<get-cos-translation-table-map-information>	<cos-translation-table-map-information>	show class-of-service translation-table
<get-cos-translation-table-mapping-information>	<cos-translation-table-mapping-information>	show class-of-service forwarding-table translation-table mapping
<get-cos-virtual-channel-group-information>	<cos-virtual-channel-group-information>	show class-of-service virtual-channel-group
<get-cos-virtual-channel-information>	<cos-virtual-channel-information>	show class-of-service virtual-channel
<get-craft-information>	<craft-information>	show chassis craft-interface
<get-crl-information>	<crl-information>	show ipsec certificates crl
<get-database-replication-statistics-information>	<database-replication-statistics-information>	show database-replication statistics
<get-database-replication-summary-information>	<database-replication-summary-information>	show database-replication summary
<get-destination-class-statistics>	<destination-class-statistics>	show interfaces destination-class
<get-dhcp-binding-information>	<dhcp-binding-information>	show system services dhcp binding
<get-dhcp-conflict-information>	<dhcp-conflict-information>	show system services dhcp conflict
<get-dhcp-global-information>	<dhcp-global-information>	show system services dhcp global
<get-dhcp-pool-information>	<dhcp-pool-information>	show system services dhcp pool
<get-dhcp-relay-binding-information>	<dhcp-relay-binding-information>	show dhcp relay binding
<get-dhcp-relay-statistics-information>	<dhcp-relay-statistics-information>	show dhcp relay statistics
<get-dhcp-server-binding-information>	<dhcp-server-binding-information>	show dhcp server binding
<get-dhcp-server-statistics-information>	<dhcp-server-statistics-information>	show dhcp server statistics
<get-dhcp-statistics-information>	<dhcp-statistics-information>	show system services dhcp statistics
<get-diameter-function-information>	<diameter-function-information>	show diameter function
<get-diameter-function-statistics>	<diameter-function-statistics>	show diameter function statistics
<get-diameter-information>	<diameter-information>	show diameter
<get-diameter-instance-information>	<diameter-instance-information>	show diameter instance
<get-diameter-network-element-information>	<diameter-network-element-information>	show diameter network-element
<get-diameter-network-element-map-information>	<diameter-network-element-map-information>	show diameter network-element map

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (8 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-diameter-peer-information>	<diameter-peer-information>	show diameter peer
<get-diameter-peer-map-information>	<diameter-peer-map-information>	show diameter peer map
<get-diameter-peer-statistics>	<diameter-peer-statisitics>	show diameter peer statistics
<get-diameter-route-information>	<diameter-route-information>	show diameter route
<get-directory-usage-information>	<directory-usage-information>	show system directory-usage
<get-dot1x-authentication-failed-users>	<dot1x-authentication-failed-users>	show dot1x authentication-failed-users
<get-dot1x-interface-information>	<dot1x-interface-information>	show dot1x interface
<get-dot1x-interface-mac-addresses>	<dot1x-interface-mac-addresses>	show dot1x static-mac-address interface
<get-dot1x-static-mac-addresess>	<dot1x-static-mac-addresses>	show dot1x static-mac-address
<get-dvmrp-interfaces-information>	<dvmrp-interfaces-information>	show dvmrp interfaces
<get-dvmrp-neighbors-information>	<dvmrp-neighbors-information>	show dvmrp neighbors
<get-dvmrp-prefix-information>	<dvmrp-prefix-information>	show dvmrp prefix
<get-dvmrp-prunes-information>	<dvmrp-prunes-information>	show dvmrp prunes
<get-elmi-information>	<elmi-interface-information>	show oam ethernet lmi
<get-elmi-statistics>	<elmi-interface-statistics>	show oam ethernet lmi statistics
<get-environment-cb-information>	<environment-component-information>	show chassis environment cb
<get-environment-cip-information>	<environment-component-information>	show chassis environment cip
<get-environment-feb-information>	<environment-component-information>	show chassis environment feb
<get-environment-fpc-information>	<environment-component-information>	show chassis environment fpc
<get-environment-fpm-information>	<environment-component-information>	show chassis environment fpm
<get-environment-information>	<environment-information>	show chassis environment
<get-environment-mcs-information>	<environment-component-information>	show chassis environment mcs
<get-environment-pcg-information>	<environment-component-information>	show chassis environment pcg
<get-environment-pem-information>	<environment-component-information>	show chassis environment pem
<get-environment-psu-information>	<environment-component-information>	show chassis environment psu
<get-environment-re-information>	<environment-component-information>	show chassis environment routing-engine
<get-environment-scg-information>	<environment-component-information>	show chassis environment scg
<get-environment-sfm-information>	<environment-component-information>	show chassis environment sfm
<get-environment-sib-information>	<environment-component-information>	show chassis environment sib
<get-esis-adjacency-information>	<esis-adjacency-information>	show esis adjacency
<get-esis-interface-information>	<esis-interface-information>	show esis interface
<get-esis-statistics-information>	<esis-statistics-information>	show esis statistics
<get-evc-infromation>	<elmi-evc-information>	show oam ethernet evc
<get-fabric-queue-information>	<fabric-queue-information>	show class-of-service fabric statistics
<get-feb-brief-information>	<scb-information>	show chassis feb
<get-feb-information>	<scb-information>	show chassis feb detail
<get-feb-redundancy-error-information>	<feb-redundancy-error-information>	show chassis redundancy feb errors
<get-feb-redundancy-group-information>	<feb-redundancy-group-information>	show chassis redundancy feb redundancy-group

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (9 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-feb-redundancy-information>	<feb-redundancy-information>	show chassis redundancy feb
<get-fips-pic-status-information>	<fips-pic-status-information>	show services fips pic status
<get-firewall-counter-information>	<firewall-counter-information>	show firewall counter
<get-firewall-filter-information>	<firewall-filter-information>	show firewall filter
<get-firewall-information>	<firewall-information>	show firewall
<get-firewall-log-information>	<firewall-log-information>	show firewall log
<get-firewall-prefix-action-information>	<firewall-prefix-action-information>	show firewall prefix-action-stats
<get-firmware-information>	<firmware-information>	show chassis firmware
<get-flow-table-statistics-information>	<flow-table-statistics-information>	show services flow-table statistics
<get-fm-fpc-state-information>	<fm-fpc-state-information>	show chassis fabric fpcs
<get-fm-plane-state-information>	<fm-plane-state-information>	show chassis fabric plane
<get-fm-sib-state-information>	<fm-sib-state-information>	show chassis fabric sibs
<get-fm-state-information>	<fm-state-information>	show chassis fabric summary
<get-forwarding-table-information>	<forwarding-table-information>	show route forwarding-table
<get-fpc-feb-connectivity-information>	<fpc-feb-connectivity>	show chassis fpc-feb-connectivity
<get-fpc-information>	<fpc-information>	show chassis fpc
<get-fru-information>	<fru-information>	show chassis lccs
<get-fwdd-information>	<scb-information>	show chassis forwarding
<get-ggsn-apn-statistics-information>	<apn-statistics-information>	show services ggsn statistics apn
<get-ggsn-charging-statistics-information>	<ggsn-charging-statistics-information>	show services ggsn statistics charging
<get-ggsn-gtp-prime-statistics-information>	<gtp-prime-statistics-information>	show services ggsn statistics gtp-prime
<get-ggsn-gtp-statistics-information>	<gtp-statistics-information>	show services ggsn statistics gtp
<get-ggsn-imsi-trace>	<call-trace-information>	show services ggsn trace imsi
<get-ggsn-imsi-user-information>	<mobile-user-information>	show services ggsn statistics imsi
<get-ggsn-interface-information>	<ggsn-interface-information>	show services ggsn status
<get-ggsn-l2tp-tunnel-statistics-information>	<l2tp-tunnel-statistics-information>	show services ggsn statistics l2tp-tunnel
<get-ggsn-msisdn-trace>	<call-trace-information>	show services ggsn trace msisdn
<get-ggsn-radius-statistics-information>	<ggsn-radius-statistics-information>	show services ggsn statistics radius
<get-ggsn-sgsn-statistics-information>	<sgsn-statistics-information>	show services ggsn statistics sgsn
<get-ggsn-statistics>	<ggsn-statistics>	show services ggsn statistics
<get-ggsn-trace>	<call-trace-information>	show services ggsn trace all
<get-header-redirect-set-statistics-information>	<header-redirect-set-statistics-information>	show services service-identification header-redirect statistics
<get-health-monitor-alarm-information>	<rmon-alarm-information>	show snmp health-monitor alarms
<get-health-monitor-information>	<health-monitor-information>	show snmp health-monitor
<get-health-monitor-log-information>	<rmon-log-information>	show snmp health-monitor logs
<get-helper-statistics-information>	<helper-statistics-information>	show helper statistics
<get-helper-statistics-information>	<helper-statistics-information>	show helper statistics
<get-history-results>	<history-results>	show services rpm history-results

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (10 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-idp-application-system-cache>	<idp-application-system-cache-information>	show security idp application-identification application-system-cache
<get-idp-applications-information>	<idp-applications-information>	show security idp application-statistics
<get-idp-attack-table-information>	<idp-attack-table-information>	show security idp attack table
<get-idp-counter-information>	<idp-counter-information>	show security idp counters
<get-idp-memory-information>	<idp-memory-information>	show security idp memory
<get-idp-security-package-information>	<idp-security-package-information>	show security idp security-package-version
<get-idp-ssl-key-information>	<idp-ssl-key-information>	show security idp ssl-inspection key
<get-idp-ssl-session-cache-information>	<get-idp-ssl-session-cache-information>	show security idp ssl-inspection session-id-cache
<get-idp-status-information>	<idp-status-information>	show security idp status
<get-igmp-group-information>	<igmp-group-information>	show igmp group
<get-igmp-interface-information>	<igmp-interface-information>	show igmp interface
<get-igmp-output-group-information>	<igmp-output-group-information>	show igmp output-group
<get-igmp-snooping-interface-information>	<igmp-interface-information>	show igmp snooping interface
<get-igmp-snooping-membership-information>	<igmp-snooping-membership-information>	show igmp snooping membership
<get-igmp-snooping-statistics-information>	<igmp-statistics-information>	show igmp snooping statistics
<get-igmp-statistics-information>	<igmp-statistics-information>	show igmp statistics
<get-ike-security-associations-information>	<ike-security-associations-information>	show ike security-associations
<get-ike-services-security-associations-information>	<ike-security-associations-information>	show services ipsec-vpn ike security-associations
<get-instance-information>	<instance-information>	show route instance
<get-interface-filter-information>	<interface-filter-information>	show interfaces filters
<get-interface-information>	<interface-information>	show interfaces
<get-interface-location-information>	<interface-location-slot-information>	show chassis location interface by-slot
<get-interface-location-name-information>	<interface-location-name-information>	show chassis location interface by-name
<get-interface-optics-diagnostics-information>	<interface-optics-diagnostics-information>	show interfaces diagnostics optics
<get-interface-policer-information>	<interface-policer-information>	show interfaces policers
<get-interface-queue-information>	<interface-information>	show interfaces queue
<get-interface-set-queue-information>	<interface-set-queue-information>	show interfaces interface-set queue
<get-ioc-npc-connectivity-information>	<ioc-npc-connectivity>	show chassis ioc-npc-connectivity
<get-ip-mip-binding-information>	<mip-binding-information>	show mobile-ip home-agent binding ip-address
<get-ipsec-pic-redundancy-information>	<ipsec-pic-redundancy-information>	show ipsec redundancy interface
<get-ipsec-tunnel-redundancy-information>	<ipsec-tunnel-redundancy-information>	show ipsec redundancy security-associations
<get-ipv6-nd-information>	<ipv6-nd-information>	show ipv6 neighbors
<get-ipv6-ra-information>	<ipv6-ra-information>	show ipv6 router-advertisement
<get-isis-adjacency-information>	<isis-adjacency-information>	show isis adjacency
<get-isis-authentication-information>	<isis-authentication-information>	show isis authentication

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (11 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-isis-backup-coverage-information>	<isis-backup-coverage-information>	show isis backup coverage
<get-isis-backup-lsp-information>	<isis-backup-lsp-information>	show isis backup label-switched-path
<get-isis-backup-spf-results-information>	<isis-backup-spf-results-information>	show isis backup spf results
<get-isis-database-information>	<isis-database-information>	show isis database
<get-isis-hostname-information>	<isis-hostname-information>	show isis hostname
<get-isis-interface-information>	<isis-interface-information>	show isis interface
<get-isis-overview-information>	<isis-overview-information>	show isis overview
<get-isis-route-information>	<isis-route-information>	show isis route
<get-isis-spf-log-information>	<isis-spf-log-information>	show isis spf log
<get-isis-spf-results-brief-information>	<isis-spf-results-brief-information>	show isis spf brief
<get-isis-spf-results-information>	<isis-spf-results-information>	show isis spf results
<get-isis-statistics-information>	<isis-statistics-information>	show isis statistics
<get-l2ckt-connection-information>	<l2ckt-connection-information>	show l2circuit connections
<get-l2tp-multilink-information>	<services-l2tp-multilink-information>	show services l2tp multilink
<get-l2tp-session-information>	<service-l2tp-session-information>	show services l2tp session
<get-l2tp-summary-information>	<service-l2tp-summary-information>	show services l2tp summary
<get-l2tp-tunnel-information>	<service-l2tp-tunnel-information>	show services l2tp tunnel
<get-l2vpn-connection-information>	<l2vpn-connection-information>	show l2vpn connections
<get-lacp-interface-information>	NONE	show lacp interfaces
<get-lacp-interface-statistics>	NONE	show lacp statistics interfaces
<get-ldp-database-information>	<ldp-database-information>	show ldp database
<get-ldp-fec-filters-information>	<ldp-fec-filters-information>	show ldp fec-filters
<get-ldp-interface-information>	<ldp-interface-information>	show ldp interface
<get-ldp-neighbor-information>	<ldp-neighbor-information>	show ldp neighbor
<get-ldp-path-information>	<ldp-path-information>	show ldp path
<get-ldp-route-information>	<ldp-route-information>	show ldp route
<get-ldp-session-information>	<ldp-session-information>	show ldp session
<get-ldp-statistics-information>	<ldp-statistics-information>	show ldp statistics
<get-ldp-traffic-statistics-information>	<ldp-traffic-statistics-information>	show ldp traffic-statistics
<get-lfmd-information>	<lfmd-information>	show oam ethernet link-fault-management
<get-license-information>	<license-information>	show system license installed
<get-license-key-information>	<license-key-information>	show system license keys
<get-license-summary-information>	<license-summary-information>	show system license
<get-license-usage-summary>	<license-usage-summary>	show system license usage
<get-link-services-cpu-usage>	<lsqinfo-cpu-usage-information>	show services link-services cpu-usage
<get-lldp-information-detail>	<lldp-information-detail>	show lldp detail
<get-lldp-information>	<lldp-information>	show lldp
<get-lldp-local-info>	<lldp-local-info>	show lldp local-information
<get-lldp-neighbors-information>	<lldp-neighbors-information>	show lldp neighbors

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (12 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-lldp-remote-global-statistics>	<lldp-remote-global-statistics>	show lldp remote-global-statistics
<get-lldp-statistics-information>	<lldp-statistics-information>	show lldp statistics
<get-lm-information>	<lm-information>	show link-management
<get-lm-peer-information>	<lm-peer-information>	show link-management peer
<get-lm-peer-statistics>	<lm-peer-statistics>	show link-management statistics peer
<get-lm-routing-information>	<lm-information>	show link-management routing
<get-lm-routing-peer-information>	<lm-peer-information>	show link-management routing peer
<get-lm-routing-resource-information>	<lm-resource>	show link-management routing resource
<get-lm-routing-te-link-information>	<lm-te-link-information>	show link-management routing te-link
<get-lm-statistics-information>	<lm-statistics-information>	show link-management statistics
<get-lm-te-link-information>	<lm-te-link-information>	show link-management te-link
<get-mac-database>	<mac-database>	show interfaces mac-database
<get-mip-binding-information>	<mip-binding-information>	show mobile-ip home-agent binding
<get-mip-ha-interface-information>	<mip-ha-interface-information>	show mobile-ip home-agent interface
<get-mip-ha-overview-information>	<mip-ha-overview-information>	show mobile-ip home-agent overview
<get-mip-ha-traffic-information>	<mip-home-agent-traffic-information>	show mobile-ip home-agent traffic
<get-mip-ha-virtual-network-information>	<mip-ha-virtual-network-information>	show mobile-ip home-agent virtual-network
<get-mip-wimax-release-information>	<mip-wimax-release-information>	show mobile-ip wimax release
<get-mld-group-information>	<mld-group-information>	show mld group
<get-mld-interface-information>	<mld-interface-information>	show mld interface
<get-mld-output-group-information>	<mld-output-group-information>	show mld output-group
<get-mld-statistics-information>	<mld-statistics-information>	show mld statistics
<get-mpls-admin-group-information>	<mpls-admin-group-information>	show mpls admin-groups
<get-mpls-call-admission-control-information>	<mpls-call-admission-control-information>	show mpls call-admission-control
<get-mpls-cspf-information>	<mpls-cspf-information>	show mpls cspf
<get-mpls-diffserv-te-information>	<mpls-diffserv-te-information>	show mpls diffserv-te
<get-mpls-interface-information>	<mpls-interface-information>	show mpls interface
<get-mpls-lsp-defaults-information>	<mpls-lsp-defaults-information>	show mpls lsp defaults
<get-mpls-lsp-information>	<mpls-lsp-information>	show mpls lsp
<get-mpls-path-information>	<mpls-path-information>	show mpls path
<get-msdp-source-active-information>	<pim-msdp-source-active-information>	show msdp source-active
<get-msdp-source-information>	<pim-msdp-source-information>	show msdp source
<get-msdp-statistics-information>	<pim-msdp-statistics-information>	show msdp statistics
<get-mspinfo-connections>	<mspinfo-raw-output>	show extension-provider system connections
<get-mspinfo-packages>	<mspinfo-raw-output>	show extension-provider system packages
<get-mspinfo-processes-brief>	<mspinfo-raw-output>	show extension-provider system processes brief

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (13 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-mspinfo-processes-extensive>	<mspinfo-raw-output>	show extension-provider system processes extensive
<get-mspinfo-processes>	<mspinfo-raw-output>	show extension-provider system processes
<get-mspinfo-uptime>	<mspinfo-raw-output>	show extension-provider system uptime
<get-mspinfo-virtual-memory>	<mspinfo-raw-output>	show extension-provider system virtual-memory
<get-multicast-backup-pe-address-information>	<multicast-backup-pe-address-information>	show multicast backup-pe-groups address
<get-multicast-backup-pe-groups-information>	<multicast-backup-pe-groups-information>	show multicast backup-pe-groups
<get-multicast-flow-maps-information>	<multicast-flow-maps-information>	show multicast flow-map
<get-multicast-interface-information>	<multicast-interface-information>	show multicast interface
<get-multicast-next-hops-information>	<multicast-next-hops-information>	show multicast next-hops
<get-multicast-pim-to-igmp-proxy-information>	<multicast-pim-to-igmp-proxy-information>	show multicast pim-to-igmp-proxy
<get-multicast-pim-to-mld-proxy-information>	<multicast-pim-to-mld-proxy-information>	show multicast pim-to-mld-proxy
<get-multicast-route-information>	<multicast-route-information>	show multicast route
<get-multicast-rpf-information>	<multicast-rpf-information>	show multicast rpf
<get-multicast-scope-information>	<multicast-scope-information>	show multicast scope
<get-multicast-sessions-information>	<multicast-sessions-information>	show multicast sessions
<get-multicast-snooping-next-hops-information>	<multicast-next-hops-information>	show multicast snooping next-hops
<get-multicast-snooping-route-information>	<multicast-route-information>	show multicast snooping route
<get-multicast-statistics-information>	<multicast-statistics-information>	show multicast statistics
<get-multicast-usage-information>	<multicast-usage-information>	show multicast usage
<get-mvpn-instance-information>	<mvpn-instance-information>	show mvpn instance
<get-nai-mip-binding-information>	<mip-binding-information>	show mobile-ip home-agent binding nai
<get-name-resolution-info>	<name-resolution-info>	show system name-resolution
<get-operational-routing-instance-information>	<operational-routing-instance-information>	show route instance operational
<get-ospf-database-information>	<ospf-database-information>	show ospf database
<get-ospf-interface-information>	<ospf-interface-information>	show ospf interface
<get-ospf-io-statistics-information>	<ospf-io-statistics-information>	show ospf io-statistics
<get-ospf-log-information>	<ospf-log-information>	show ospf log
<get-ospf-neighbor-information>	<ospf-neighbor-information>	show ospf neighbor
<get-ospf-overview-information>	<ospf-overview-information>	show ospf overview
<get-ospf-route-information>	<ospf-route-information>	show ospf route
<get-ospf-statistics-information>	<ospf-statistics-information>	show ospf statistics
<get-ospf3-database-information>	<ospf3-database-information>	show ospf3 database
<get-ospf3-interface-information>	<ospf3-interface-information>	show ospf3 interface
<get-ospf3-io-statistics-information>	<ospf3-io-statistics-information>	show ospf3 io-statistics
<get-ospf3-log-information>	<ospf3-log-information>	show ospf3 log
<get-ospf3-neighbor-information>	<ospf3-neighbor-information>	show ospf3 neighbor

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (14 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-ospf3-overview-information>	<ospf3-overview-information>	show ospf3 overview
<get-ospf3-route-information>	<ospf3-route-information>	show ospf3 route
<get-ospf3-statistics-information>	<ospf3-statistics-information>	show ospf3 statistics
<get-package-backup-information>	<package-backup-information>	show system software backup
<get-packet-distribution-information>	<packet-distribution-information>	show services accounting packet-size-distribution
<get-passive-monitoring-error-information>	<passive-monitoring-error-information>	show passive-monitoring error
<get-passive-monitoring-flow-information>	<passive-monitoring-flow-information>	show passive-monitoring flow
<get-passive-monitoring-information>	<passive-monitoring-information>	show passive-monitoring
<get-passive-monitoring-memory-information>	<passive-monitoring-memory-information>	show passive-monitoring memory
<get-passive-monitoring-status-information>	<passive-monitoring-status-information>	show passive-monitoring status
<get-passive-monitoring-usage-information>	<passive-monitoring-usage-information>	show passive-monitoring usage
<get-pdp-diagnostics-per-apn>	<pdp-diagnostics-per-apn>	show services ggsn diagnostics pdp
<get-pfe-information>	<pfe-information>	show pfe terse
<get-pfe-statistics>	<pfe-statistics>	show pfe statistics traffic
<get-pgcpd-active-configuration>	<pgcpd-active-configuration>	show services pgcp active-configuration
<get-pgm-nak>	<pgm-nak>	show pgm negative-acknowledgments
<get-pgm-source-path-messages>	<pgm-source-path-messages>	show pgm source-path-messages
<get-pgm-statistics>	<pgm-statistics-information>	show pgm statistics
<get-pic-detail>	<pic-information>	show chassis pic
<get-pic-information>	<fpc-information>	show chassis fpc pic-status
<get-pim-bootstrap-information>	<pim-bootstrap-information>	show pim bootstrap
<get-pim-interfaces-information>	<pim-interfaces-information>	show pim interfaces
<get-pim-join-information>	<pim-join-information>	show pim join
<get-pim-mdt-information>	<pim-mdt-information>	show pim mdt
<get-pim-mvpn-information>	<pim-mvpn-information>	show pim mvpn
<get-pim-neighbors-information>	<pim-neighbors-information>	show pim neighbors
<get-pim-rps-information>	<pim-rps-information>	show pim rps
<get-pim-source-information>	<pim-source-information>	show pim source
<get-pim-statistics-information>	<pim-statistics-information>	show pim statistics
<get-power-management>	<power-management-information>	show chassis power-ratings
<get-ppp-address-pool-inforamation>	<ppp-address-pool-information>	show ppp address-pool
<get-ppp-interface-information>	<ppp-interface-information>	show ppp interface
<get-ppp-statistics-information>	<ppp-statistics-information>	show ppp statistics
<get-ppp-summary-information>	<ppp-summary-information>	show ppp summary
<get-pppoe-interface-information>	<pppoe-interface-information>	show pppoe interfaces
<get-pppoe-statistics-information>	<pppoe-statistics-information>	show pppoe statistics
<get-pppoe-version>	<pppoe-version>	show pppoe version
<get-probe-results>	<probe-results>	show services rpm probe-results
<get-process-health-information>	<process-health-information>	show system processes health

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (15 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-psd-information>	<psd-information>	show chassis psd
<get-radius-profile-access-test-result>	<radius-profile-access-test-result>	test access profile
<get-radius-server-access-test-result>	<radius-access-server-test-result>	test access radius-server
<get-rescue-information>	<rescue-information>	show system configuration rescue
<get-rip-general-statistics-information>	<rip-general-statistics-information>	show rip general-statistics
<get-rip-neighbor-information>	<rip-neighbor-information>	show rip neighbor
<get-rip-statistics-information>	<rip-statistics-information>	show rip statistics
<get-rmon-alarm-information>	<rmon-alarm-information>	show snmp rmon alarms
<get-rmon-event-information>	<rmon-event-information>	show snmp rmon events
<get-rmon-history-information>	<rmon-history-information>	show snmp rmon history
<get-rmon-information>	<rmon-information>	show snmp rmon
<get-rmon-log-information>	<rmon-log-information>	show snmp rmon logs
<get-rollback-information>	<rollback-information>	show system rollback
<get-route-engine-information>	<route-engine-information>	show chassis routing-engine
<get-route-information>	<route-information>	show route
<get-route-summary-information>	<route-summary-information>	show route summary
<get-rsvp-interface-information>	<rsvp-interface-information>	show rsvp interface
<get-rsvp-neighbor-information>	<rsvp-neighbor-information>	show rsvp neighbor
<get-rsvp-session-information>	<rsvp-session-information>	show rsvp session
<get-rsvp-statistics-information>	<rsvp-statistics-information>	show rsvp statistics
<get-rsvp-version-information>	<rsvp-version-information>	show rsvp version
<get-rtexport-instance-information>	<rtexport-instance-information>	show route export instance
<get-rtexport-table-information>	<rtexport-table-information>	show route export
<get-rtexport-target-information>	<rtexport-target-information>	show route export vrf-target
<get-rtflow-dep-information>	<rtflow-dep-information>	show route flow validation
<get-sap-listen-information>	<sap-listen-information>	show sap listen
<get-scb-information>	<scb-information>	show chassis scb
<get-security-associations-information>	<security-associations-information>	show ipsec security-associations
<get-service-accounting-aggregation-as-information>	<service-accounting-aggregation-as-information>	show services accounting aggregation as
<get-service-accounting-aggregation-destination-prefix-information>	<service-accounting-aggregation-destination-prefix-information>	show services accounting aggregation destination-prefix
<get-service-accounting-aggregation-information>	<service-accounting-aggregation-information>	show services accounting aggregation
<get-service-accounting-aggregation-protocol-port-information>	<service-accounting-aggregation-protocol-port-information>	show services accounting aggregation protocol-port
<get-service-accounting-aggregation-source-destination-prefix-information>	<service-accounting-aggregation-source-destination-prefix-information>	show services accounting aggregation source-destination-prefix
<get-service-accounting-aggregation-source-prefix-information>	<service-accounting-aggregation-source-prefix-information>	show services accounting aggregation source-prefix
<get-service-accounting-aggregation-template-information>	<service-accounting-aggregation-template-information>	show services accounting aggregation template

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (16 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-service-accounting-errors-information>	<service-accounting-errors-information>	show services accounting errors
<get-service-accounting-flow-detail>	<service-accounting-flow-detail>	show services accounting flow-detail
<get-service-accounting-flow-information>	<service-accounting-flow-information>	show services accounting flow
<get-service-accounting-information>	<service-accounting-information>	show services accounting
<get-service-accounting-memory-information>	<service-accounting-memory-information>	show services accounting memory
<get-service-accounting-status-information>	<service-accounting-status-information>	show services accounting status
<get-service-accounting-usage-information>	<service-accounting-usage-information>	show services accounting usage
<get-service-border-signaling-gateway-information-by-contact>	<bsg-information-details>	show services border-signaling-gateway by-contact
<get-service-border-signaling-gateway-information-by-request-uri>	<bsg-information-details>	show services border-signaling-gateway by-request-uri
<get-service-border-signaling-gateway-statistics-admission-control>	<bsg-statistics-admission-control>	show services border-signaling-gateway admission-control
<get-service-border-signaling-gateway-statistics-calls-failed>	<bsg-statistics-calls-failed-details>	show services border-signaling-gateway calls-failed
<get-service-border-signaling-gateway-statistics-calls>	<bsg-statistics-calls-details>	show services border-signaling-gateway calls
<get-service-cos-diffserv-statistics>	<service-cos-diffserv-statistics>	show services cos statistics diffserv
<get-service-cos-forwarding-class-statistics>	<service-cos-forwarding-class-statistics>	show services cos statistics forwarding-class
<get-service-cos-statistics-information>	<service-cos-statistics-information>	show services cos statistics
<get-service-crtp-extensive-information>	<service-crtp-extensive-information>	show services crtp extensive
<get-service-crtp-flow-table-information>	<service-crtp-flow-table-information>	show services crtp flows
<get-service-crtp-params-information>	<service-crtp-params-information>	show services crtp
<get-service-deployment-service-information>	<service-deployment-service-information>	show system services service-deployment
<get-service-identification-statistics-information>	<service-identification-statistics-information>	show services service-identification statistics
<get-service-ids-destination-table-information>	<service-ids-flow-table-information>	show services ids destination-table
<get-service-ids-pair-table-information>	<service-ids-flow-table-information>	show services ids pair-table
<get-service-ids-source-table-information>	<service-ids-flow-table-information>	show services ids source-table
<get-service-msp-flow-table-information>	<service-sfw-flow-table-information>	show services flows
<get-service-nat-ipv6-multicast-information>	<service-nat-ipv6-multicast-interfaces-information>	show services nat ipv6-multicast-interfaces
<get-service-nat-pool-information>	<service-nat-pool-information>	show services nat pool
<get-service-pgcp-active-configuration-gateway>	<service-pgcp-active-configuration-gateway>	show services pgcp active-configuration gateway
<get-service-pgcp-conversation-information-gateway>	<service-pgcp-conversation–gateway-information>	show services pgcp conversations gateway
<get-service-pgcp-conversation-information>	<service-pgcp-conversation-information>	show services pgcp conversations
<get-service-pgcp-flow-table-information-gateway>	<service-pgcp-flow-table-gateway-information>	show services pgcp flows gateway
<get-service-pgcp-flow-table-information>	<service-pgcp-flow-table-information>	show services pgcp flows
<get-service-pgcp-gate-gateway>	<service-pgcp-gate-gateway>	show services pgcp gate gateway

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (17 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-service-pgcp-gate>	<service-pgcp-gate>	show services pgcp gate
<get-service-pgcp-gates-gateway>	<service-pgcp-gates-gateway>	show services pgcp gates gateway
<get-service-pgcp-gates>	<service-pgcp-gates>	show services pgcp gates
<get-service-pgcp-statistics-gateway>	<service-pgcp-statistics-gateway>	show services pgcp statistics gateway
<get-service-pgcp-statistics>	<service-pgcp-statistics>	show services pgcp statistics
<get-service-pgcp-terminations-gateway>	<service-pgcp-terminations-gateway>	show services pgcp terminations gateway
<get-service-pgcp-terminations>	<service-pgcp-terminations>	show services pgcp terminations
<get-service-set-cpu-statistics>	<service-set-cpu-statistics-information>	show services service-sets cpu-usage
<get-service-set-memory-statistics>	<service-set-memory-statistics-information>	show services service-sets memory-usage
<get-service-set-packet-drop-statistics>	<service-set-packet-drop-statistics>	show services service-sets statistics packet-drops
<get-service-set-plugin-summary>	<service-set-plugin-summary>	show services service-sets plug-ins
<get-service-set-summary-information>	<service-set-summary-information>	show services service-sets summary
<get-service-set-tcp-mss-statistics>	<service-set-tcp-mss-statistics>	show services service-sets statistics tcp-mss
<get-service-sfw-conversation-information>	<service-sfw-conversation-information>	show services stateful-firewall conversations
<get-service-sfw-flow-table-information>	<service-sfw-flow-table-information>	show services stateful-firewall flows
<get-service-sfw-sip-call-information>	<service-sfw-sip-call-information>	show services stateful-firewall sip-call
<get-service-sfw-sip-register-information>	<service-sfw-sip-register-information>	show services stateful-firewall sip-register
<get-service-sfw-statistics-information>	<service-sfw-statistics-information>	show services stateful-firewall statistics
<get-services-dynamic-flow-capture-content-destination-information>	<services-dynamic-flow-capture-content-destination-information>	show services dynamic-flow-capture content-destination
<get-services-dynamic-flow-capture-control-source-information>	<services-dynamic-flow-capture-control-source-information>	show services dynamic-flow-capture control-source
<get-services-flow-collector-file-information>	<services-flow-collector-file-information>	show services flow-collector file
<get-services-flow-collector-information>	<services-flow-collector-information>	show services flow-collector
<get-services-flow-collector-input-information>	<services-flow-collector-input-information>	show services flow-collector input
<get-services-ipsec-statistics-information>	<ipsec-total-statistics-information>	show services ipsec-vpn ipsec statistics
<get-services-l2tp-radius-accounting-servers-information>	<services-l2tp-radius-accounting-servers-information>	show services l2tp radius accounting servers
<get-services-l2tp-radius-accounting-statistics-information>	<services-l2tp-radius-accounting-statistics-information>	show services l2tp radius accounting statistics
<get-services-l2tp-radius-authentication-accounting-servers-information>	<services-l2tp-radius-authentication-accounting-servers-information>	show services l2tp radius servers
<get-services-l2tp-radius-authentication-accounting-statistics-information>	<services-l2tp-radius-authentication-accounting-statistics-information>	show services l2tp radius statistics
<get-services-l2tp-radius-authentication-servers-information>	<services-l2tp-radius-authentication-servers-information>	show services l2tp radius authentication servers

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (18 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-services-l2tp-radius-authentication-statistics-information>	<services-l2tp-radius-authentication-statistics-information>	show services l2tp radius authentication statistics
<get-services-pgcpd-root-termination-gateway>	<services-pgcpd-root-termination-gateway>	show services pgcp root-termination gateway
<get-services-pgcpd-root-termination>	<services-pgcpd-root-termination>	show services pgcp root-termination
<get-services-security-associations-information>	<services-security-associations-information>	show services ipsec-vpn ipsec security-associations
<get-sfm-information>	<scb-information>	show chassis sfm
<get-show-bridge-domain-all-ce-flood-route-information>	<l2ald-bridge-domain-flood-route-information>	show bridge flood route all-ce-flood
<get-show-bridge-domain-ve-flood-route-information>	<l2ald-bridge-domain-flood-route-information>	show bridge flood route all-ve-flood
<get-sib-information>	<sib-information>	show chassis sibs
<get-snapshot-information>	<snapshot-information>	show system snapshot
<get-snmp-inform-statistics>	<snmp-inform-statistics>	show snmp inform-statistics
<get-snmp-information>	<snmp-statistics>	show snmp statistics
<get-snmp-object>	<snmp-object-information>	show snmp mib get
<get-snmp-v3-access-information>	<snmp-v3-access-information>	show snmp v3 access
<get-snmp-v3-community-information>	<snmp-v3-community-information>	show snmp v3 community
<get-snmp-v3-general-information>	<snmp-v3-general-information>	show snmp v3 general
<get-snmp-v3-group-information>	<snmp-v3-group-information>	show snmp v3 groups
<get-snmp-v3-information>	<snmp-v3-information>	show snmp v3
<get-snmp-v3-notify-filter-information>	<snmp-v3-notify-filter-information>	show snmp v3 notify filter
<get-snmp-v3-notify-information>	<snmp-v3-notify-information>	show snmp v3 notify
<get-snmp-v3-target-address-information>	<snmp-v3-target-address-information>	show snmp v3 target address
<get-snmp-v3-target-information>	<snmp-v3-target-information>	show snmp v3 target
<get-snmp-v3-target-parameters-information>	<snmp-v3-target-parameters-information>	show snmp v3 target parameters
<get-snmp-v3-usm-user-information>	<snmp-v3-usm-user-information>	show snmp v3 users
<get-software-information>	<software-information>	show version
<get-source-class-statistics>	<source-class-statistics>	show interfaces source-class
<get-spmb-information>	<spmb-information>	show chassis spmb
<get-spmb-sib-information>	<sib-information>	show chassis spmb sibs
<get-ssb-information>	<scb-information>	show chassis ssb
<get-statistics-information>	<statistics>	show system statistics
<get-subscribers>	<subscriber>	show subscribers
<get-summary-mip-binding-information>	<mip-binding-information>	show mobile-ip home-agent binding summary
<get-switchover-information>	<switchover-information>	show system switchover
<get-syslog-tag-information>	<syslog-tag-information>	help syslog
<get-system-alarm-information>	<alarm-information>	show system alarms
<get-system-archival>	<directory-list>	show system configuration archival
<get-system-firmware-information>	<system-firmware-information>	show system firmware

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (19 of 21)

Request Tag Element	Response Tag Element	CLI Command
<get-system-resource-cleanup-processes-information>	<system-resource-cleanup-processes-information>	show system resource-cleanup processes
<get-system-services-reverse-information>	<system-services-reverse-information>	show system services reverse
<get-system-storage>	<system-storage-information>	show system storage
<get-system-uptime-information>	<system-uptime-information>	show system uptime
<get-system-users-information>	<system-users-information>	show system users
<get-ted-database-information>	<ted-database-information>	show ted database
<get-ted-link-information>	<ted-link-information>	show ted link
<get-ted-protocol-information>	<ted-protocol-information>	show ted protocol
<get-temperature-threshold-information>	<temperature-threshold-information>	show chassis temperature-thresholds
<get-uri-redirect-set-statistics-information>	<uri-redirect-set-statistics-information>	show services service-identification uri-redirect statistics
<get-vcpu-information>	<vcpu-information>	show chassis vcpu
<get-vpls-all-ce-flood-route-information>	<l2ald-vpls-flood-route-information>	show vpls flood route all-ce-flood
<get-vpls-all-flood-route-information>	<l2ald-vpls-flood-route-information>	show vpls flood route all-flood
<get-vpls-alt-root-flood-route-information>	<l2ald-vpls-flood-route-information>	show vpls flood route alt-root-flood
<get-vpls-ce-flood-route-information>	<l2ald-vpls-flood-route-information>	show vpls flood route ce-flood
<get-vpls-connection-information>	<vpls-connection-information>	show vpls connections
<get-vpls-event-queue-information>	<l2ald-vpls-flood-event-queue>	show vpls flood event-queue
<get-vpls-interface-mac-table>	NONE	show vpls mac-table interface
<get-vpls-mac-table>	NONE	show vpls mac-table
<get-vpls-mlp-flood-route-information>	<l2ald-vpls-flood-route-information>	show vpls flood route mlp-flood
<get-vpls-re-flood-route-information>	<l2ald-vpls-flood-route-information>	show vpls flood route re-flood
<get-vpls-statistics-information>	<vpls-statistics-information>	show vpls statistics
<network-services>	<network-services>	show chassis network-services
<next-snmp-object>	<snmp-object-information>	show snmp mib get-next
<node-secret-file-table>	<node-secret-file-table>	show network-access securid-node-secret-file
<op-script>	NONE	op
<ping>	NONE	ping
<reload-eedebug-action-profile>	<message>	request security datapath-debug action-profile reload-all
<reload-event-scripts>	<event-scripts-reload>	request system scripts event-scripts reload
<request-appid-application-package-download-version>	<appid-download-status>	request services application-identification download version
<request-appid-application-package-download>	<appid-download-status>	request services application-identification download
<request-appid-application-package-uninstall>	<appid-apppack-uinstall>	request services application-identification uninstall
<request-delete-rescue-configuration>	<rescue-management-results>	request system configuration rescue delete
<request-end-session>	<end-session>	quit

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (20 of 21)

Request Tag Element	Response Tag Element	CLI Command
<request-feb>	NONE	request chassis feb
<request-ggsn-restart-interface>	<interface-action-results>	request services ggsn restart interface
<request-ggsn-restart-node>	<node-action-results>	request services ggsn restart node
<request-ggsn-software-update>	<software-action-results>	request services ggsn trace software update
<request-ggsn-start-imsi-trace>	NONE	request services ggsn trace start imsi
<request-ggsn-start-msisdn-trace>	NONE	request services ggsn trace start msisdn
<request-ggsn-stop-imsi-trace>	NONE	request services ggsn trace stop imsi
<request-ggsn-stop-interface>	<interface-action-results>	request services ggsn stop interface
<request-ggsn-stop-msisdn-trace>	NONE	request services ggsn trace stop msisdn
<request-ggsn-stop-node>	NONE	request services ggsn stop node
<request-ggsn-stop-trace-activity>	NONE	request services ggsn trace stop all
<request-ggsn-terminate-context>	<pdp-context-deletion-results>	request services ggsn pdp terminate context
<request-ggsn-terminate-contexts-apn>	<apn-pdp-context-deletion-results>	request services ggsn pdp terminate apn
<request-ggsn-terminate-msisdn-context>	NONE	request services ggsn pdp terminate context msisdn
<request-halt>	NONE	request system halt
<request-idp-security-package-download-version>	<secpack-download-status>	request security idp security-package download version
<request-idp-security-package-download>	<secpack-download-status>	request security idp security-package download
<request-idp-security-package-install>	<secpack-update-status>	request security idp security-package install
<request-idp-ssl-key-add>	<request-idp-ssl-key-add>	request security idp ssl-inspection key add
<request-idp-ssl-key-delete>	NONE	request security idp ssl-inspection key delete
<request-license-delete>	NONE	request system license delete
<request-monitor-ethernet-delay-measurement>	<ethdm-results>	monitor ethernet delay-measurement
<request-package-add>	NONE	request system software add
<request-package-delete-backup>	NONE	request system software delete-backup
<request-package-delete>	NONE	request system software delete
<request-package-in-service-upgrade>	NONE	request system software in-service-upgrade
<request-package-rollback>	NONE	request system software rollback
<request-package-validate>	NONE	request system software validate
<request-ping-ethernet>	<ethping-results>	ping ethernet
<request-ping-l2circuit-interface>	NONE	ping mpls l2circuit interface
<request-ping-l2circuit-virtual-circuit>	NONE	ping mpls l2circuit virtual-circuit

Table 4: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (21 of 21)

Request Tag Element	Response Tag Element	CLI Command
<request-ping-l2vpn-instance>	NONE	ping mpls l2vpn instance
<request-ping-l2vpn-interface>	NONE	ping mpls l2vpn interface
<request-ping-l3vpn>	NONE	ping mpls l3vpn
<request-ping-ldp-lsp>	NONE	ping mpls ldp
<request-ping-lsp-end-point>	NONE	ping mpls lsp-end-point
<request-ping-rsvp-lsp>	NONE	ping mpls rsvp
<request-ping-vpls-instance>	NONE	ping vpls instance
<request-power-off>	NONE	request system power-off
<request-reboot>	<request-reboot-results>	request system reboot
<request-redundancy-feb>	NONE	request chassis redundancy feb
<request-save-rescue-configuration>	<rescue-management-results>	request system configuration rescue save
<request-scripts-package-add>	NONE	request system scripts add
<request-scripts-package-delete>	NONE	request system scripts delete
<request-scripts-package-rollback>	NONE	request system scripts rollback
<request-services-flow-collector-destination>	<flow-collector-destination-response>	request services flow-collector change-destination
<request-services-flow-collector-test-file-transfer>	<flow-collector-test-file-transfer-response>	request services flow-collector test-file-transfer
<request-snapshot>	NONE	request system snapshot
<request-snmp-spoof-trap>	<snmp-spoof-trap-results>	request snmp spoof-trap
<request-system-storage-cleanup>	<system-storage-cleanup-information>	request system storage cleanup
<request-traceroute-ethernet>	<ethtraceroute-results>	traceroute ethernet
<set-logical-router>	NONE	set cli logical-system
<traceroute>	NONE	traceroute
<walk-snmp-object>	<snmp-object-information>	show snmp mib walk

Chapter 2

Summary of Operational Request Tag Elements

This chapter lists the JUNOS Extensible Markup Language (XML) tag elements that a client of the JUNOScript or NETCONF server uses to request operational information. The tag names are in alphabetical order. For information about the notation used in this chapter, see Table 2 on page lxxx.

<abort-in-service-upgrade>

Usage

```
<rpc>
  <abort-in-service-upgrade/>
</rpc>
```

Description Abort in-service software upgrade.

<check-in-service-upgrade>

Usage

```
<rpc>
  <check-in-service-upgrade>
    <package-name>package-name</package-name>     <!-- mandatory -->
  </check-in-service-upgrade>
</rpc>
```

Description Check in-service software upgrade.

Contents <package-name>—URL or path of package.

<clear-aaa-subscriber-table>

Usage

```
<rpc>
  <clear-aaa-subscriber-table>
    <username>username</username>     <!-- mandatory -->
  </clear-aaa-subscriber-table>
</rpc>
```

Description Logout the subscriber and clear the session entry.

Contents <username>—Subscriber session identifier.

<clear-aaa-subscriber-table-specific-statistics>

Usage

```
<rpc>
  <clear-aaa-subscriber-table-specific-statistics>
    <username>username</username>     <!-- mandatory -->
  </clear-aaa-subscriber-table-specific-statistics>
</rpc>
```

Description Clear subscriber statistics.

Contents <username>—Subscriber session identifier.

<clear-ancp-neighbor-connection>

Usage

```
<rpc>
  <clear-ancp-neighbor-connection>
    <ip-address>ip-address</ip-address>
    <system-name>system-name</system-name>
  </clear-ancp-neighbor-connection>
</rpc>
```

Description Clear neighbor connection.

Contents <ip-address>—IP address of the neighbor.

<system-name>—MAC address of the neighbor.

<clear-ancp-subscriber-identifier-information>

Usage

```
<rpc>
  <clear-ancp-subscriber-identifier-information>
    <identifier-name>identifier-name</identifier-name>     <!-- mandatory -->
    <neighbor>neighbor</neighbor>
  </clear-ancp-subscriber-identifier-information>
</rpc>
```

Description Access loop identifier.

Contents <identifier-name>—Identifier.

<neighbor>—Subscriber information from a neighbor.

<clear-appid-application-system-cache>

Usage

```
<rpc>
  <clear-appid-application-system-cache/>
</rpc>
```

Description Clear application system cache.

<clear-appid-counter>

Usage

```
<rpc>
  <clear-appid-counter/>
</rpc>
```

Description Clear the application identification counters.

<clear-arp-table>

Usage

```
<rpc>
  <clear-arp-table>
    <hostname>hostname</hostname>
    <vpn>vpn</vpn>
    <logical-system>logical-system</logical-system>
  </clear-arp-table>
</rpc>
```

Description Clear address resolution information.

Contents <hostname>—Name of host.

<logical-system>—Name of logical system.

<vpn>—Name of VPN routing table.

<clear-authentication-pending-table>

Usage

```
<rpc>
  <clear-authentication-pending-table>

<clear-authentication-pending-table-specific>clear-authentication-pending-table-specific
                </clear-authentication-pending-table-specific>
  </clear-authentication-pending-table>
</rpc>
```

Description Clear pending authentication requests.

Contents <clear-authentication-pending-table-specific>—Clear information for a specific request.

<clear-authentication-statistics>

Usage

```
<rpc>
  <clear-authentication-statistics/>
</rpc>
```

Description Clear general authentication statistics.

<clear-bgp-damping>

Usage

```
<rpc>
  <clear-bgp-damping>
    <logical-system>logical-system</logical-system>
    <prefix>prefix</prefix>
  </clear-bgp-damping>
</rpc>
```

Description Clear damping information.

Contents <logical-system>—Name of logical system, or 'all'.

<prefix>—Destination prefix and prefix length.

<clear-bgp-neighbor>

Usage

```
<rpc>
  <clear-bgp-neighbor>
    <logical-system>logical-system</logical-system>
    <soft/>
    <soft-minimum-igp/>
    <soft-inbound/>
    <instance>instance</instance>
    <as>as</as>
    <neighbor>neighbor</neighbor>
  </clear-bgp-neighbor>
</rpc>
```

Description Clear BGP neighbors.

Contents <as>— Autonomous system number in plain number or 'higher 16bits'.'Lower 16 bits' (asdot notation) format.

<instance>—Name of BGP instance.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—Particular BGP neighbor to clear.

<soft>—Soft reset outbound state.

<soft-inbound>—Soft reset inbound state by issuing Refresh.

<soft-minimum-igp>—Soft reset outbound state with refresh of minimum igp MED.

<clear-bgp-table>

Usage

```
<rpc>
  <clear-bgp-table>
    <logical-system>logical-system</logical-system>
    <table>table</table>
  </clear-bgp-table>
</rpc>
```

Description Refresh routes in a routing table.

Contents <logical-system>—Name of logical system, or 'all'.

<table>—Name of table to clear.

<clear-binding-all>

Usage

```
<rpc>
  <clear-binding-all>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </clear-binding-all>
</rpc>
```

Description Clear all bindings.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<clear-binding-ip>

Usage

```
<rpc>
  <clear-binding-ip>
    <ip-address>ip-address</ip-address>     <!-- mandatory -->
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </clear-binding-ip>
</rpc>
```

Description Clear binding entry based on IP address.

Contents <ip-address>—Enter IP Address.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<clear-binding-nai>

Usage

```
<rpc>
  <clear-binding-nai>
    <nai>nai</nai>     <!-- mandatory -->
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </clear-binding-nai>
</rpc>
```

Description Clear binding entry based on nai.

Contents <logical-system>—Name of logical system.

<nai>—Enter nai.

<routing-instance>—Name of routing instance.

<clear-bridge-interface-mac-table>

Usage

```
<rpc>
  <clear-bridge-interface-mac-table>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
    <vlan-id>vlan-id-choice</vlan-id>
  </clear-bridge-interface-mac-table>
</rpc>
```

Description Clear media access control table for specified interface.

Contents <interface-name>—Name of interface for which to clear table.

<vlan-id>—Clear MAC address learned on a specified VLAN.

- all-vlan—Clear MAC addresses on all VLAN(s).
- vlan-id—Clear MAC address learned on a specified VLAN.

<clear-bridge-mac-table>

Usage

```
<rpc>
  <clear-bridge-mac-table>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
    <logical-system>logical-system</logical-system>
    <vlan-id>vlan-id-choice</vlan-id>
    <address>address</address>
  </clear-bridge-mac-table>
</rpc>
```

Description Clear all learned media access control addresses.

Contents <address>—MAC address.

<bridge-domain>—Name of bridging domain, or 'all'.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<vlan-id>—Clear MAC address learned on a specified VLAN.

- all-vlan—Clear MAC addresses on all VLAN(s).
- vlan-id—Clear MAC address learned on a specified VLAN.

<clear-cfm-delay-statistics>

Usage

```
<rpc>
  <clear-cfm-delay-statistics>
    <one-way/>
    <two-way/>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association</maintenance-association>
<!-- mandatory -->
  </clear-cfm-delay-statistics>
</rpc>
```

Description Clear Ethernet OAM delay statistics.

Contents <maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<one-way>—One-way delay measurement.

<two-way>—Two-way delay measurement.

<clear-cfm-linktrace-path-database>

Usage

```
<rpc>
  <clear-cfm-linktrace-path-database>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association
          </maintenance-association>     <!-- mandatory -->
    <host>host</host>     <!-- mandatory -->
  </clear-cfm-linktrace-path-database>
</rpc>
```

Description Clear linktrace path-database entries of a remote host.

Contents <host>—MAC address of remote host in xx:xx:xx:xx:xx:xx format.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<clear-cfm-statistics>

Usage

```
<rpc>
  <clear-cfm-statistics>
    <interface>interface</interface>
    <level>level</level>
  </clear-cfm-statistics>
</rpc>
```

Description Clear connectivity-fault-management statistics.

Contents <interface>—Clear the statistics on an interface.

<level>—The maintenance-domain level.

<clear-database-replication-statistics-information>

Usage

```
<rpc>
  <clear-database-replication-statistics-information/>
</rpc>
```

Description Clear database replication statistics.

<clear-dhcp-binding-information>

Usage

```
<rpc>
  <clear-dhcp-binding-information>
    <address>address</address>
  </clear-dhcp-binding-information>
</rpc>
```

Description Clear DHCP client binding information.

Contents <address>—Address of DHCP client binding.

<clear-dhcp-conflict-information>

Usage

```
<rpc>
  <clear-dhcp-conflict-information>
    <address>address</address>
  </clear-dhcp-conflict-information>
</rpc>
```

Description Clear DHCP address conflict.

Contents <address>—DHCP conflict address.

<clear-dhcp-relay-binding-information>

Usage

```
<rpc>
  <clear-dhcp-relay-binding-information>
    <address>address</address>
    <all/>
    <routing-instance>routing-instance</routing-instance>
    <bridge-domain>bridge-domain</bridge-domain>
    <logical-system>logical-system</logical-system>
  </clear-dhcp-relay-binding-information>
</rpc>
```

Description Clear DHCP client binding information.

Contents <address>—IP address or MAC address of DHCP client binding.

<all>—Clear all bindings.

<bridge-domain>—Name of bridge domain.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<clear-dhcp-relay-statistics-information>

Usage

```
<rpc>
  <clear-dhcp-relay-statistics-information>
    <routing-instance>routing-instance</routing-instance>
    <bridge-domain>bridge-domain</bridge-domain>
    <logical-system>logical-system</logical-system>
  </clear-dhcp-relay-statistics-information>
</rpc>
```

Description Clear DHCP statistics.

Contents <bridge-domain>—Name of bridge domain.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<clear-dhcp-server-binding-information>

Usage

```
<rpc>
  <clear-dhcp-server-binding-information>
    <address>address</address>
    <all/>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </clear-dhcp-server-binding-information>
</rpc>
```

Description Clear DHCP client binding information.

Contents <address>—IP address or MAC address of DHCP client binding.

<all>—Clear all bindings.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<clear-dhcp-statistics-information>

Usage

```
<rpc>
  <clear-dhcp-statistics-information/>
</rpc>
```

Description Clear DHCP statistics.

<clear-diameter-function>

Usage

```
<rpc>
  <clear-diameter-function>
    <statistics/>
    <clear-diameter-function-name>clear-diameter-function-name</
clear-diameter-function-name>     <!-- mandatory -->
  </clear-diameter-function>
</rpc>
```

Description Clear diameter function information.

Contents <clear-diameter-function-name>—Function name.

<statistics>—Clear diameter function statistics.

<clear-diameter-peer>

Usage

```
<rpc>
  <clear-diameter-peer>
    <connection/>
    <statistics/>
    <clear-diameter-peer-name>clear-diameter-peer-name</clear-diameter-peer-name>
<!-- mandatory -->
  </clear-diameter-peer>
</rpc>
```

Description Clear diameter peer information.

Contents <clear-diameter-peer-name>—Peer name.

<connection>—Clear diameter peer connection(default).

<statistics>—Clear diameter peer statistics.

<clear-dot1x-interface-session>

Usage

```
<rpc>
  <clear-dot1x-interface-session>
    <interface-name>interface-name</interface-name>
  </clear-dot1x-interface-session>
</rpc>
```

Description Clear 802.1X session on an interface.

Contents <interface-name>—Name of interface.

<clear-dot1x-mac-session>

Usage
```
<rpc>
  <clear-dot1x-mac-session>
    <static-mac-addr>static-mac-addr</static-mac-addr>
  </clear-dot1x-mac-session>
</rpc>
```

Description Clear 802.1X session on a MAC address.

Contents <static-mac-addr>—MAC address to clear.

<clear-elmi-statistics>

Usage
```
<rpc>
  <clear-elmi-statistics>
    <interface>interface</interface>
  </clear-elmi-statistics>
</rpc>
```

Description Clear ethernet local management statistics.

Contents <interface>—Name of interface.

<clear-helper-statistics-information>

Usage
```
<rpc>
  <clear-helper-statistics-information/>
</rpc>
```

Description Clear helper statistics.

<clear-idp-application-system-cache>

Usage
```
<rpc>
  <clear-idp-application-system-cache/>
</rpc>
```

Description Clear IDP application system cache.

<clear-idp-applications-information>

Usage
```
<rpc>
  <clear-idp-applications-information/>
</rpc>
```

Description Clear IDP application statistics.

<clear-idp-attack-table>

Usage

```
<rpc>
  <clear-idp-attack-table/>
</rpc>
```

Description Clear IDP attack table.

<clear-idp-counters-by-counter-class>

Usage

```
<rpc>
  <clear-idp-counters-by-counter-class>
    <counter-class>counter-class</counter-class>     <!-- mandatory -->
  </clear-idp-counters-by-counter-class>
</rpc>
```

Description Clear IDP counters.

Contents <counter-class>—No documentation is available yet.

<clear-idp-ssl-session-cache-information>

Usage

```
<rpc>
  <clear-idp-ssl-session-cache-information/>
</rpc>
```

Description Session ID cache.

<clear-interfaces-statistics>

Usage

```
<rpc>
  <clear-interfaces-statistics>
    <switch-port>switch-port</switch-port>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </clear-interfaces-statistics>
</rpc>
```

Description Clear interface statistics.

Contents <interface-name>—Name of physical or logical interface.

<switch-port>—Front end port number.

<clear-interfaces-statistics-all>

Usage

```
<rpc>
  <clear-interfaces-statistics-all/>
</rpc>
```

Description Clear statistics for all interfaces.

<clear-ipv6-nd-information>

Usage

```
<rpc>
  <clear-ipv6-nd-information>
    <host>host</host>
  </clear-ipv6-nd-information>
</rpc>
```

Description Clear IPv6 neighbor cache information.

Contents <host>—Name of neighbor.

<clear-isis-adjacency-information>

Usage

```
<rpc>
  <clear-isis-adjacency-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <interface>interface</interface>
    <neighbor>neighbor</neighbor>
  </clear-isis-adjacency-information>
</rpc>
```

Description Clear IS-IS adjacencies.

Contents <instance>—Name of IS-IS instance.

<interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—Name of neighbor.

<clear-isis-database-information>

Usage

```
<rpc>
  <clear-isis-database-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <purge/>
    <entries>entries</entries>
  </clear-isis-database-information>
</rpc>
```

Description Clear IS-IS database entries.

Contents <entries>—Name of database entry.

<instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<purge>—Purge database entries instead of deleting them.

<clear-isis-overload-information>

Usage

```
<rpc>
  <clear-isis-overload-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </clear-isis-overload-information>
</rpc>
```

Description Clear overload bit and regenerate LSPs.

Contents <instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<clear-isis-statistics-information>

Usage

```
<rpc>
  <clear-isis-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </clear-isis-statistics-information>
</rpc>
```

Description Clear IS-IS statistics.

Contents <instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<clear-lacp-interface-statistics>

Usage

```
<rpc>
  <clear-lacp-interface-statistics>
    <interface-name>interface-name</interface-name>
  </clear-lacp-interface-statistics>
</rpc>
```

Description Clear LACP interface statistics.

Contents <interface-name>—Name of interface.

<clear-mpls-lsp-information>

Usage

```
<rpc>
  <clear-mpls-lsp-information>
    <logical-system>logical-system</logical-system>
    <optimize/>
    <optimize-aggressive/>
    <statistics/>
    <autobandwidth/>
    <regex>regex</regex>
    <path>path</path>
  </clear-mpls-lsp-information>
</rpc>
```

Description Reset nontransit or egress LSPs originating on this router.

Contents <autobandwidth>—Clear LSP autobandwidth counters.

<logical-system>—Name of logical system, or 'all'.

<optimize>—Perform nonpreemptive optimization computation now.

<optimize-aggressive>—Perform aggressive optimization computation now.

<path>—Regular expression for LSP path to match.

<regex>—Regular expression for LSP names to match.

<statistics>—Clear LSP statistics.

<clear-node-secret-file>

Usage

```
<rpc>
  <clear-node-secret-file/>
</rpc>
```

Description Delete SecurID authentication node secret file.

<clear-ospf-database-information>

Usage

```
<rpc>
  <clear-ospf-database-information>
    <logical-system>logical-system</logical-system>
    <purge/>
    <router/>
    <network/>
    <netsummary/>
    <asbrsummary/>
    <external/>
    <nssa/>
    <link-local/>
    <opaque-area/>
    <area>area</area>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router-choice</advertising-router>
    <instance>instance</instance>
  </clear-ospf-database-information>
</rpc>
```

Description Clear OSPF database entries.

Contents <advertising-router>—Router ID of advertising router.

- router-id—Router ID of advertising router.
- self—Router ID of this router.

<area>—OSPF area ID.

<asbrsummary>—Summary AS boundary router link-state advertisements.

<external>—External link-state advertisements.

<instance>—Name of OSPF instance.

<link-local>—Link local link-state advertisements.

<logical-system>—Name of logical system, or 'all'.

<lsa-id>—Link-state advertisement ID.

<netsummary>—Summary network link-state advertisements.

<network>—Network link-state advertisements.

<nssa>—Not-so-stubby area link-state advertisements.

<opaque-area>—Opaque area-scope link-state advertisements.

<purge>—Purge database entries instead of deleting them.

<router>—Router link-state advertisements.

<clear-ospf-io-statistics-information>

Usage

```
<rpc>
  <clear-ospf-io-statistics-information>
    <logical-system>logical-system</logical-system>
  </clear-ospf-io-statistics-information>
</rpc>
```

Description Clear OSPF I/O statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<clear-ospf-neighbor-information>

Usage

```
<rpc>
  <clear-ospf-neighbor-information>
    <logical-system>logical-system</logical-system>
    <interface>interface</interface>
    <neighbor>neighbor</neighbor>
    <area>area</area>
    <instance>instance</instance>
  </clear-ospf-neighbor-information>
</rpc>
```

Description Clear OSPF neighbors.

Contents <area>—OSPF area ID.

<instance>—Name of OSPF instance.

<interface>—Name of logical interface.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—Name of neighbor.

<clear-ospf-overload-information>

Usage

```
<rpc>
  <clear-ospf-overload-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </clear-ospf-overload-information>
</rpc>
```

Description Clear overload bit and rebuild LSAs.

Contents <instance>—Name of OSPF instance.

<logical-system>—Name of logical system, or 'all'.

<clear-ospf-statistics-information>

Usage

```
<rpc>
  <clear-ospf-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </clear-ospf-statistics-information>
</rpc>
```

Description Clear OSPF statistics.

Contents <instance>—Name of OSPF instance.

<logical-system>—Name of logical system, or 'all'.

<clear-ospf3-database-information>

Usage

```
<rpc>
  <clear-ospf3-database-information>
    <logical-system>logical-system</logical-system>
    <purge/>
    <router/>
    <network/>
    <inter-area-prefix/>
    <inter-area-router/>
    <external/>
    <nssa/>
    <link/>
    <link-local/>
    <intra-area-prefix/>
    <area>area</area>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router-choice</advertising-router>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </clear-ospf3-database-information>
</rpc>
```

Description Clear OSPFv3 database entries.

Contents <advertising-router>—Router ID of advertising router.

- router-id—Router ID of advertising router.
- self—Router ID of this router.

<area>—Area ID of OSPFv3 area.

<external>—External LSAs.

<instance>—Name of OSPFv3 instance.

<inter-area-prefix>—Inter-area-prefix LSAs.

<inter-area-router>—Inter-area-router LSAs.

<intra-area-prefix>—Intra-area-prefix LSAs.

<link>—Link LSAs.

<link-local>—Link-local LSAs.

<logical-system>—Name of logical system, or 'all'.

<lsa-id>—ID of link-state advertisement.

<network>—Network LSAs.

<nssa>—NSSA LSAs.

<purge>—Purge database entries instead of deleting them.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<router>—Router LSAs.

<clear-ospf3-io-statistics-information>

Usage

```
<rpc>
  <clear-ospf3-io-statistics-information>
    <logical-system>logical-system</logical-system>
  </clear-ospf3-io-statistics-information>
</rpc>
```

Description Clear OSPFv3 I/O statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<clear-ospf3-neighbor-information>

Usage

```
<rpc>
  <clear-ospf3-neighbor-information>
    <logical-system>logical-system</logical-system>
    <interface>interface</interface>
    <neighbor>neighbor</neighbor>
    <area>area</area>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </clear-ospf3-neighbor-information>
</rpc>
```

Description Clear OSPFv3 neighbors.

Contents <area>—OSPF area ID.

<instance>—Name of OSPFv3 instance.

<interface>—Name of logical interface.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—Name of OSPFv3 neighbor.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<clear-ospf3-overload-information>

Usage

```
<rpc>
  <clear-ospf3-overload-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </clear-ospf3-overload-information>
</rpc>
```

Description Clear overload bit and rebuild LSAs.

Contents <instance>—Name of OSPFv3 instance.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<clear-ospf3-statistics-information>

Usage

```
<rpc>
  <clear-ospf3-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </clear-ospf3-statistics-information>
</rpc>
```

Description Clear OSPFv3 statistics.

Contents <instance>—Name of OSPFv3 instance.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<clear-passive-monitoring>

Usage
```
<rpc>
  <clear-passive-monitoring/>
</rpc>
```

Description Clear passive monitoring statistics.

<clear-passive-monitoring-statistics>

Usage
```
<rpc>
  <clear-passive-monitoring-statistics>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </clear-passive-monitoring-statistics>
</rpc>
```

Description Clear statistics.

Contents <interface-name>—Name of monitoring interface, wildcard, or 'all'.

<clear-ppp-statistics-information>

Usage
```
<rpc>
  <clear-ppp-statistics-information>
    <memory/>
  </clear-ppp-statistics-information>
</rpc>
```

Description Clear PPP statistics.

Contents <memory>—Clear PPP process memory statistics.

<clear-reboot>

Usage
```
<rpc>
  <clear-reboot>
    <both-routing-engines/>
  </clear-reboot>
</rpc>
```

Description Clear all pending halt or reboot requests.

Contents <both-routing-engines>—Clear halt or reboot on both Routing Engines.

<clear-rsvp-counters-information>

Usage

```
<rpc>
  <clear-rsvp-counters-information>
    <logical-system>logical-system</logical-system>
  </clear-rsvp-counters-information>
</rpc>
```

Description Clear RSVP counters.

Contents <logical-system>—Name of logical system, or 'all'.

<clear-rsvp-session-information>

Usage

```
<rpc>
  <clear-rsvp-session-information>
    <logical-system>logical-system</logical-system>
    <session-name>session-name</session-name>
    <lsp-id>lsp-id</lsp-id>
    <tunnel-id>tunnel-id</tunnel-id>
    <gracefully/>
    <connection-source>connection-source</connection-source>
    <connection-destination>connection-destination</connection-destination>
    <optimize-fast-reroute/>
  </clear-rsvp-session-information>
</rpc>
```

Description Preempt RSVP session.

Contents <connection-destination>—Destination of the label-switched path.

<connection-source>—Source of the label-switched path.

<gracefully>—Gracefully tear down RSVP sessions.

<logical-system>—Name of logical system, or 'all'.

<lsp-id>—LSP ID of the RSVP sender.

<optimize-fast-reroute>—Perform fast-reroute optimization computation now.

<session-name>—Name of session.

<tunnel-id>—Tunnel ID of the RSVP session.

<clear-server-statistics-information>

Usage

```
<rpc>
  <clear-server-statistics-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </clear-server-statistics-information>
</rpc>
```

Description Clear DHCP server statistics.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<clear-service-border-signaling-gateway-statistics>

Usage

```
<rpc>
  <clear-service-border-signaling-gateway-statistics>
    <gateway>gateway</gateway>     <!-- mandatory -->
  </clear-service-border-signaling-gateway-statistics>
</rpc>
```

Description Clear BSG statistics counters.

Contents <gateway>—Name of border signaling gateway.

<clear-service-msp-flow-ipaction-table>

Usage

```
<rpc>
  <clear-service-msp-flow-ipaction-table/>
</rpc>
```

Description Clear ip-action table.

<clear-service-msp-flow-table-information>

Usage

```
<rpc>
  <clear-service-msp-flow-table-information>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </clear-service-msp-flow-table-information>
</rpc>
```

Description Remove established flows from flow table.

Contents <destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<interface>—Name of extension provider interface.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.

- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<clear-service-pgcp-gates>

Usage

```
<rpc>
  <clear-service-pgcp-gates/>
</rpc>
```

Description Clear gates table.

<clear-service-pgcp-gates-gateway>

Usage

```
<rpc>
  <clear-service-pgcp-gates-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
  </clear-service-pgcp-gates-gateway>
</rpc>
```

Description Clear gate table for gateway.

Contents <gateway-name>—Gateway name.

<clear-service-pgcp-statistics>

Usage

```
<rpc>
  <clear-service-pgcp-statistics/>
</rpc>
```

Description Clear statistics information.

<clear-service-pgcp-statistics-gateway>

Usage

```
<rpc>
  <clear-service-pgcp-statistics-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
  </clear-service-pgcp-statistics-gateway>
</rpc>
```

Description Clear gate table for gateway.

Contents <gateway-name>—Gateway name.

<clear-service-set-packet-drop-statistics>

Usage

```
<rpc>
  <clear-service-set-packet-drop-statistics>
    <interface>interface</interface>
  </clear-service-set-packet-drop-statistics>
</rpc>
```

Description Clear service set packet drop statistics.

Contents <interface>—Name of adaptive services interface.

<clear-service-sfw-flow-table-information>

Usage

```
<rpc>
  <clear-service-sfw-flow-table-information>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </clear-service-sfw-flow-table-information>
</rpc>
```

Description Remove established flows from flow table.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.
- netbios—NetBIOS.
- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.

- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<interface>—Name of adaptive services interface.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.

- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<clear-service-sfw-sip-call-information>

Usage

```
<rpc>
  <clear-service-sfw-sip-call-information>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </clear-service-sfw-sip-call-information>
</rpc>
```

Description Remove established SIP calls from flow table.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.
- netbios—NetBIOS.
- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.

- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<interface>—Name of adaptive services interface.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.

- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<clear-service-sfw-sip-register-information>

Usage

```
<rpc>
  <clear-service-sfw-sip-register-information>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </clear-service-sfw-sip-register-information>
</rpc>
```

Description Remove established SIP register from flow table.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.
- netbios—NetBIOS.
- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.

- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<interface>—Name of adaptive services interface.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.

- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<clear-services-dynamic-flow-capture-criteria>

Usage

```
<rpc>
  <clear-services-dynamic-flow-capture-criteria>
    <capture-group>capture-group</capture-group>     <!-- mandatory -->
    <destination-identifier>destination-identifier</destination-identifier>
    <criteria-identifier>criteria-identifier</criteria-identifier>
    <static/>
  </clear-services-dynamic-flow-capture-criteria>
</rpc>
```

Description Clear dynamic flow capture criteria.

Contents <capture-group>—Capture group name.

<criteria-identifier>—Criteria identifier.

<destination-identifier>—Content destination identifier.

<static>—Clear static criteria also.

<clear-services-dynamic-flow-capture-sequence-number>

Usage

```
<rpc>
  <clear-services-dynamic-flow-capture-sequence-number>
    <capture-group>capture-group</capture-group>     <!-- mandatory -->
    <source-identifier>source-identifier</source-identifier>     <!-- mandatory -->
  </clear-services-dynamic-flow-capture-sequence-number>
</rpc>
```

Description Clear dynamic flow capture sequence-number.

Contents <capture-group>—Capture group name.

<source-identifier>—Control source identifier.

<clear-services-flow-collector-information>

Usage

```
<rpc>
  <clear-services-flow-collector-information/>
</rpc>
```

Description Clear services flow collector information.

<clear-services-flow-collector-statistics>

Usage

```
<rpc>
  <clear-services-flow-collector-statistics>
    <interface>interface-choice</interface>     <!-- mandatory -->
  </clear-services-flow-collector-statistics>
</rpc>
```

Description Clear statistics.

Contents <interface>—Interface name.

- all—All configured Collector PICs.
- interface—Physical interface.

<clear-system-commit>

Usage

```
<rpc>
  <clear-system-commit/>
</rpc>
```

Description Clear all pending commit requests.

<clear-system-services-reverse-information>

Usage
```
<rpc>
  <clear-system-services-reverse-information/>
</rpc>
```

Description Clear reverse telnet/SSH connection.

<clear-visitor-all>

Usage
```
<rpc>
  <clear-visitor-all/>
</rpc>
```

Description Clear all visitors.

<clear-visitor-ip>

Usage
```
<rpc>
  <clear-visitor-ip>
    <ip-address>ip-address</ip-address>     <!-- mandatory -->
  </clear-visitor-ip>
</rpc>
```

Description Cleat visitor entry based on IP address.

Contents <ip-address>—Enter IP Address.

<clear-visitor-nai>

Usage
```
<rpc>
  <clear-visitor-nai>
    <nai>nai</nai>     <!-- mandatory -->
  </clear-visitor-nai>
</rpc>
```

Description Clear visitor entry based on nai.

Contents <nai>—Enter nai.

<clear-vpls-interface-mac-table>

Usage

```
<rpc>
  <clear-vpls-interface-mac-table>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
    <vlan-id>vlan-id-choice</vlan-id>
  </clear-vpls-interface-mac-table>
</rpc>
```

Description Clear media access control table for specified interface.

Contents <interface-name>—Name of interface for which to clear table.

<vlan-id>—Clear MAC address learned on a specified VLAN.

- all-vlan—Clear MAC addresses on all VLAN(s).
- vlan-id—Clear MAC address learned on a specified VLAN.

<clear-vpls-mac-table>

Usage

```
<rpc>
  <clear-vpls-mac-table>
    <instance>instance</instance>
    <logical-system>logical-system</logical-system>
    <vlan-id>vlan-id-choice</vlan-id>
    <address>address</address>
  </clear-vpls-mac-table>
</rpc>
```

Description Clear all learned media access control addresses.

Contents <address>—MAC address.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<vlan-id>—Clear MAC address learned on a specified VLAN.

- all-vlan—Clear MAC addresses on all VLAN(s).
- vlan-id—Clear MAC address learned on a specified VLAN.

<file-compare>

Usage

```
<rpc>
  <file-compare>
    <context/>
    <unified/>
    <ignore-white-space/>
    <from-file>from-file</from-file>
    <to-file>to-file</to-file>
  </file-compare>
</rpc>
```

Description Compare files.

Contents <context>—Context style output format.

<from-file>—File to compare.

<ignore-white-space>—Ignore changes in amount of white space.

<to-file>—File to compare against.

<unified>—Unified style output format.

<file-copy>

Usage

```
<rpc>
  <file-copy>
    <source>source</source>      <!-- mandatory -->
    <destination>destination</destination>      <!-- mandatory -->
    <source-address>source-address</source-address>
  </file-copy>
</rpc>
```

Description Copy files (local or remote).

Contents <destination>—URL of destination file.

<source>—URL of source file.

<source-address>—Local address to use in originating the connection.

<file-delete>

Usage

```
<rpc>
  <file-delete>
    <purge/>
    <path>path</path>     <!-- mandatory -->
  </file-delete>
</rpc>
```

Description Delete files from the system.

Contents <path>—Path to delete.

<purge>—Overwrite regular files before deleting them.

<file-get>

Usage

```
<rpc>
  <file-get>
    <filename>filename</filename>     <!-- mandatory -->
    <encoding>encoding</encoding>     <!-- mandatory -->
  </file-get>
</rpc>
```

Description Get file from device with contents inlined.

Contents <encoding>—Encoding type, ascii or base64.

<filename>—Name of source file on device.

<file-list>

Usage

```
<rpc>
  <file-list>
    <detail/>
    <recursive/>
    <path>path</path>
  </file-list>
</rpc>
```

Description List file information.

Contents <detail>—Display detailed output (like 'ls -l').

<path>—Path to list.

<recursive>—Descend recursively through directory hierarchy.

<file-put>

Usage

```
<rpc>
  <file-put>
    <filename>filename</filename>     <!-- mandatory -->
    <permission>permission</permission>
    <encoding>encoding</encoding>     <!-- mandatory -->
    <delete-if-exist/>
    <file-contents>file-contents</file-contents>     <!-- mandatory -->
  </file-put>
</rpc>
```

Description Put file onto device with contents inlined.

Contents <delete-if-exist>—Delete the destination file on device if it already exists.

<encoding>—Encoding type, ascii or base64.

<file-contents>—File content.

<filename>—Name of destination file on device.

<permission>—Name of destination file on device.

<file-rename>

Usage

```
<rpc>
  <file-rename>
    <source>source</source>     <!-- mandatory -->
    <destination>destination</destination>     <!-- mandatory -->
  </file-rename>
</rpc>
```

Description Rename files.

Contents <destination>—Destination URL.

<source>—Source URL.

<file-show>

Usage

```
<rpc>
  <file-show>
    <filename>filename</filename>     <!-- mandatory -->
    <encoding>encoding-choice</encoding>
  </file-show>
</rpc>
```

Description Show file contents.

Contents <encoding>—Encode file contents.

- base64—Encode file with base64 encoding.

<filename>—Filename to show.

<get-aaa-module-statistics>

Usage

```
<rpc>
  <get-aaa-module-statistics>
    <authentication/>
    <accounting/>
    <dynamic-requests/>
  </get-aaa-module-statistics>
</rpc>
```

Description Authentication, authorization and accounting (AAA) module statistics.

Contents <accounting>—Accounting statistics.

<authentication>—Authentication statistics.

<dynamic-requests>—Dynamic requests statistics.

<get-aaa-subscriber-statistics>

Usage

```
<rpc>
  <get-aaa-subscriber-statistics>
    <username>username</username>     <!-- mandatory -->
  </get-aaa-subscriber-statistics>
</rpc>
```

Description Statistics on subscriber events.

Contents <username>—Show statistics for this subscriber's session entry.

<get-aaa-subscriber-table>

Usage

```
<rpc>
  <get-aaa-subscriber-table>
    <username>username</username>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-aaa-subscriber-table>
</rpc>
```

Description List subscriber specific command options.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<username>—Show details for this subscriber's session entry.

<get-accounting-profile-information>

Usage

```
<rpc>
  <get-accounting-profile-information>
    <profile>profile</profile>
  </get-accounting-profile-information>
</rpc>
```

Description Show accounting profile information.

Contents <profile>—Profile name.

<get-accounting-record-information>

Usage

```
<rpc>
  <get-accounting-record-information>
    <profile>profile</profile>     <!-- mandatory -->
    <since>since</since>
    <utc-timestamp/>
  </get-accounting-record-information>
</rpc>
```

Description Show accounting records.

Contents <profile>—Name of profile.

<since>—Timestamp on earliest records to show (YYYY-MM-DD.HH:MM:SS).

<utc-timestamp>—Display timestamp in UTC format.

<get-active-servers>

Usage

```
<rpc>
  <get-active-servers/>
</rpc>
```

Description Show configured servers.

<get-address-assignment-pool-table>

Usage

```
<rpc>
  <get-address-assignment-pool-table>

<get-address-assignment-pool-table-specific>get-address-assignment-pool-table-specific
</get-address-assignment-pool-table-specific>     <!-- mandatory -->
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-address-assignment-pool-table>
</rpc>
```

Description Show pool information.

Contents <get-address-assignment-pool-table-specific>—Show information for a specific pool.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-alarm-information>

Usage

```
<rpc>
  <get-alarm-information/>
</rpc>
```

Description Show alarm status.

<get-ancp-cos-information>

Usage

```
<rpc>
  <get-ancp-cos-information>
    <identifier>identifier</identifier>
  </get-ancp-cos-information>
</rpc>
```

Description Show ANCP Cos information.

Contents <identifier>—Access loop identifier.

<get-ancp-cos-last-update-information>

Usage
```
<rpc>
  <get-ancp-cos-last-update-information/>
</rpc>
```

Description Show ANCP Last Update Cos information.

<get-ancp-cos-pending-information>

Usage
```
<rpc>
  <get-ancp-cos-pending-information/>
</rpc>
```

Description Show ANCP Pending Update Cos information.

<get-ancp-neighbor-information>

Usage
```
<rpc>
  <get-ancp-neighbor-information>
    <brief/>
    <detail/>
    <ip-address>ip-address</ip-address>
    <system-name>system-name</system-name>
  </get-ancp-neighbor-information>
</rpc>
```

Description Neighbor information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<ip-address>—IP address of the neighbor.

<system-name>—MAC address of the neighbor.

<get-ancp-subscriber-information>

Usage
```
<rpc>
  <get-ancp-subscriber-information>
    <brief/>
    <detail/>
  </get-ancp-subscriber-information>
</rpc>
```

Description Subscriber information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<get-appid-application-system-cache>

Usage

```
<rpc>
  <get-appid-application-system-cache/>
</rpc>
```

Description Show application system cache.

<get-appid-counter>

Usage

```
<rpc>
  <get-appid-counter/>
</rpc>
```

Description Show the application identification counters.

<get-appid-package-version>

Usage

```
<rpc>
  <get-appid-package-version/>
</rpc>
```

Description Show the current application package version.

<get-arp-table-information>

Usage

```
<rpc>
  <get-arp-table-information>
    <no-resolve/>
    <expiration-time/>
  </get-arp-table-information>
</rpc>
```

Description Show system Address Resolution Protocol table entries.

Contents <expiration-time>—Show seconds remaining before expiration.

<no-resolve>—Don't attempt to print addresses symbolically.

<get-authentication-pending-table>

Usage

```
<rpc>
  <get-authentication-pending-table>
    <get-authentication-pending-table-detailed/>
    <get-authentication-pending-table-specific>get-authentication-pending-table-specific
                </get-authentication-pending-table-specific>
  </get-authentication-pending-table>
</rpc>
```

Description Show pending authentication requests.

Contents <get-authentication-pending-table-detailed>—Show the detailed information.

<get-authentication-pending-table-specific>—Show detail information for a specific request.

<get-authentication-statistics>

Usage

```
<rpc>
  <get-authentication-statistics/>
</rpc>
```

Description Show authentication statistics.

<get-authorization-information>

Usage

```
<rpc>
  <get-authorization-information/>
</rpc>
```

Description Show authorization and authentication information.

<get-bfd-session-information>

Usage

```
<rpc>
  <get-bfd-session-information>
    <summary/>
    <brief/>
    <detail/>
    <extensive/>
    <logical-system>logical-system</logical-system>
  </get-bfd-session-information>
</rpc>
```

Description Show all BFD sessions.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<logical-system>—Name of logical system, or 'all'.

<summary>—Display summary output.

<get-bgp-group-information>

Usage

```
<rpc>
  <get-bgp-group-information>
    <logical-system>logical-system</logical-system>
    <summary/>
    <brief/>
    <detail/>
    <instance>instance</instance>
    <group-name>group-name</group-name>
  </get-bgp-group-information>
</rpc>
```

Description Show the BGP group database.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Show group information for a particular group.

<instance>—Show peer information for a particular instance.

<logical-system>—Name of logical system, or 'all'.

<summary>—Display summary output.

<get-bgp-neighbor-information>

Usage

```
<rpc>
  <get-bgp-neighbor-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <neighbor-address>neighbor-address</neighbor-address>
  </get-bgp-neighbor-information>
</rpc>
```

Description Show the BGP neighbor database.

Contents <instance>—Show peer information for a particular instance.

<logical-system>—Name of logical system, or 'all'.

<neighbor-address>—Show the neighbor database for a particular neighbor.

<get-bgp-orf-information>

Usage

```
<rpc>
  <get-bgp-orf-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <instance>instance</instance>
    <neighbor-address>neighbor-address</neighbor-address>
  </get-bgp-orf-information>
</rpc>
```

Description Show outbound route filtering information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<instance>—Show ORF information for a particular instance.

<logical-system>—Name of logical system, or 'all'.

<neighbor-address>—Show ORF information for a particular neighbor.

<get-bgp-rtf-information>

Usage

```
<rpc>
  <get-bgp-rtf-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <group-name>group-name</group-name>
  </get-bgp-rtf-information>
</rpc>
```

Description Show route target filtering information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Show group information for a particular group.

<logical-system>—Name of logical system, or 'all'.

<get-bgp-summary-information>

Usage

```
<rpc>
  <get-bgp-summary-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-bgp-summary-information>
</rpc>
```

Description Show overview of BGP information.

Contents <instance>—Show peer information for a particular instance.

<logical-system>—Name of logical system, or 'all'.

<get-bgp-traffic-statistics-information>

Usage

```
<rpc>
  <get-bgp-traffic-statistics-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <group-name>group-name</group-name>
  </get-bgp-traffic-statistics-information>
</rpc>
```

Description Show packet statistics for labeled BGP routes.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Show group information for a particular group.

<logical-system>—Name of logical system, or 'all'.

<get-bridge-domain-alt-root-flood-route-information>

Usage

```
<rpc>
  <get-bridge-domain-alt-root-flood-route-information>
    <interface>interface</interface>     <!-- mandatory -->
  </get-bridge-domain-alt-root-flood-route-information>
</rpc>
```

Description Show STP alt-root flooding route used for interface.

Contents <interface>—Interface for which to show alternate-root flooding route.

<get-bridge-domain-bd-flood-route-information>

Usage

```
<rpc>
  <get-bridge-domain-bd-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
  </get-bridge-domain-bd-flood-route-information>
</rpc>
```

Description Show route for flooding traffic of a bridge domain if no-local-switching is not enabled.

Contents <bridge-domain>—Display information for a specified bridge domain.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<get-bridge-domain-event-queue-information>

Usage

```
<rpc>
  <get-bridge-domain-event-queue-information/>
</rpc>
```

Description Show queue of pending bridge flood events.

<get-bridge-domain-mlp-flood-route-information>

Usage

```
<rpc>
  <get-bridge-domain-mlp-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
  </get-bridge-domain-mlp-flood-route-information>
</rpc>
```

Description Show route for flooding traffic to MAC learning chips.

Contents <bridge-domain>—Display information for a specified bridge domain.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<get-bridge-domain-re-flood-route-information>

Usage

```
<rpc>
  <get-bridge-domain-re-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
  </get-bridge-domain-re-flood-route-information>
</rpc>
```

Description Show route for Routing Engine flooding to all interfaces.

Contents <bridge-domain>—Display information for a specified bridge domain.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<get-bridge-instance-information>

Usage

```
<rpc>
  <get-bridge-instance-information>
    <instance>instance</instance>
    <bridge-domain-name>bridge-domain-name</bridge-domain-name>
    <logical-system>logical-system</logical-system>
    <interface>interface</interface>
    <detail/>
    <brief/>
    <extensive/>
  </get-bridge-instance-information>
</rpc>
```

Description Show bridge domain information.

Contents <bridge-domain-name>—Display information for a specified bridge domain.

<brief>—Display brief output.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Display information for a specified instance.

<interface>—Name of interface for which to display table.

<logical-system>—Name of logical system, or 'all'.

<get-bridge-interface-mac-table>

Usage

```
<rpc>
  <get-bridge-interface-mac-table>
    <interface-name>interface-name</interface-name>
    <all/>
    <detail/>
    <brief/>
    <extensive/>
    <count/>
  </get-bridge-interface-mac-table>
</rpc>
```

Description Display MAC table for a specified interface.

Contents <all>—Display MAC table for all the interfaces.

<brief>—Display brief output.

<count>—Display count only.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface-name>—Name of interface for which to display table.

<get-bridge-mac-table>

Usage

```
<rpc>
  <get-bridge-mac-table>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
    <logical-system>logical-system</logical-system>
    <vlan-id>vlan-id-choice</vlan-id>
    <address>address</address>
    <detail/>
    <brief/>
    <extensive/>
    <count/>
  </get-bridge-mac-table>
</rpc>
```

Description Show media access control table.

Contents <address>—MAC address.

<bridge-domain>—Name of bridging domain, or 'all'.

<brief>—Display brief output.

<count>—Display count only.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<vlan-id>—Display MAC address learned on a specified VLAN.

- all-vlan—Display MAC addresses on all VLAN(s).
- vlan-id—Display MAC address learned on a specified VLAN.

<get-bridge-statistics-information>

Usage

```
<rpc>
  <get-bridge-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
  </get-bridge-statistics-information>
</rpc>
```

Description Show bridge statistics information.

Contents <bridge-domain>—Display information for a specified bridge domain.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<get-certificates-information>

Usage

```
<rpc>
  <get-certificates-information>
    <brief/>
    <detail/>
    <serial-number>serial-number</serial-number>
  </get-certificates-information>
</rpc>
```

Description Show IPSec digital certificate information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<serial-number>—Serial number of certificate.

<get-cfeb-information>

Usage

```
<rpc>
  <get-cfeb-information/>
</rpc>
```

Description Show Compact Forwarding Engine Board status.

<get-cfm-delay-statistics>

Usage

```
<rpc>
  <get-cfm-delay-statistics>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association</maintenance-association>
<!-- mandatory -->
    <local-mep>local-mep</local-mep>
    <remote-mep>remote-mep</remote-mep>
    <count>count</count>
  </get-cfm-delay-statistics>
</rpc>
```

Description Show Ethernet OAM maintenance endpoint delay statistics information.

Contents <count>—Number of delay statistics per maintenance endpoint.

<local-mep>—Identifier for local maintenance endpoint.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<remote-mep>—Identifier for remote maintenance endpoint.

<get-cfm-forwarding-state-instance-information>

Usage

```
<rpc>
  <get-cfm-forwarding-state-instance-information>
    <instance-name>instance-name</instance-name>
    <bridge-domain>bridge-domain</bridge-domain>
    <brief/>
    <detail/>
    <extensive/>
  </get-cfm-forwarding-state-instance-information>
</rpc>
```

Description Show Ethernet OAM state for a forwarding instance.

Contents <bridge-domain>—Show information for a particular bridge domain.

<brief>—Display brief output.

<detail>—Display detail output.

<extensive>—Display extensive output.

<instance-name>—Show information for a particular routing instance.

<get-cfm-forwarding-state-interface-information>

Usage

```
<rpc>
  <get-cfm-forwarding-state-interface-information>
    <interface-name>interface-name</interface-name>
    <brief/>
    <detail/>
    <extensive/>
  </get-cfm-forwarding-state-interface-information>
</rpc>
```

Description Show Ethernet OAM state for an interface.

Contents <brief>—Display brief output.

<detail>—Display detail output.

<extensive>—Display extensive output.

<interface-name>—Display information for this logical interface.

<get-cfm-interfaces-information>

Usage

```
<rpc>
  <get-cfm-interfaces-information>
    <interface-name>interface-name</interface-name>
    <vlan>vlan</vlan>
    <level>level</level>
    <brief/>
    <detail/>
    <extensive/>
  </get-cfm-interfaces-information>
</rpc>
```

Description Show Ethernet OAM information for interface.

Contents <brief>—Display brief output.

<detail>—Display detail output.

<extensive>—Display extensive output.

<interface-name>—Name of interface.

<level>—Level value for maintenance domain.

<vlan>—Trunk interface VLAN.

<get-cfm-linktrace-path-database>

Usage

```
<rpc>
  <get-cfm-linktrace-path-database>
    <maintenance-domain>maintenance-domain
        </maintenance-domain>     <!-- mandatory -->
    <maintenance-association>maintenance-association
        </maintenance-association>     <!-- mandatory -->
    <host>host</host>     <!-- mandatory -->
  </get-cfm-linktrace-path-database>
</rpc>
```

Description Display the linktrace path-database for a remote host.

Contents <host>—MAC address of remote host in xx:xx:xx:xx:xx:xx format.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<get-cfm-mep-database>

Usage

```
<rpc>
  <get-cfm-mep-database>
    <maintenance-domain>maintenance-domain
        </maintenance-domain>     <!-- mandatory -->
    <maintenance-association>maintenance-association
        </maintenance-association>     <!-- mandatory -->
    <local-mep>local-mep</local-mep>
    <remote-mep>remote-mep</remote-mep>
  </get-cfm-mep-database>
</rpc>
```

Description Show Ethernet OAM maintenance endpoint database information.

Contents <local-mep>—Identifier for local maintenance endpoint.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<remote-mep>—Identifier for remote maintenance endpoint.

<get-cfm-mep-statistics>

Usage

```
<rpc>
  <get-cfm-mep-statistics>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association</maintenance-association>
<!-- mandatory -->
    <local-mep>local-mep</local-mep>
    <remote-mep>remote-mep</remote-mep>
    <count>count</count>
  </get-cfm-mep-statistics>
</rpc>
```

Description Show Ethernet OAM maintenance endpoint statistics information.

Contents <count>—Number of statistics per maintenance endpoint.

<local-mep>—Identifier for local maintenance endpoint.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<remote-mep>—Identifier for remote maintenance endpoint.

<get-cfm-mip-information>

Usage

```
<rpc>
  <get-cfm-mip-information>
    <instance-name>instance-name</instance-name>
    <bridge-domain>bridge-domain</bridge-domain>
    <interface-name>interface-name</interface-name>
    <vlan>vlan</vlan>
  </get-cfm-mip-information>
</rpc>
```

Description Display MIP information.

Contents <bridge-domain>—Show information for a particular bridge domain.

<instance-name>—Show information for a particular routing instance.

<interface-name>—Display information for this logical interface.

<vlan>—Show information for a particular VLAN within a bridge domain.

<get-chassis-inventory>

Usage

```
<rpc>
  <get-chassis-inventory>
    <detail/>
    <extensive/>
    <models/>
    <clei-models/>
  </get-chassis-inventory>
</rpc>
```

Description Show installed hardware components.

Contents <clei-models>—Display CLEI barcode and model number for orderable FRUs.

<detail>—Include RAM and disk information in output.

<extensive>—Display ID EEPROM information.

<models>—Display serial number and model number for orderable FRUs.

<get-chassis-location>

Usage

```
<rpc>
  <get-chassis-location/>
</rpc>
```

Description Show physical location of chassis.

<get-checksum-information>

Usage

```
<rpc>
  <get-checksum-information>
    <path>path</path>     <!-- mandatory -->
    <method>method-choice</method>
  </get-checksum-information>
</rpc>
```

Description Calculate MD5 checksum of a file.

Contents <method>—No documentation is available yet.

- md5—Calculate MD5 checksum of a file.
- sha-256—Calculate SHA-256 checksum of a file.
- sha1—Calculate SHA1 checksum of a file.

<path>—Path to filename.

<get-cli-tip>

Usage

```
<rpc>
  <get-cli-tip>
    <number>number</number>
  </get-cli-tip>
</rpc>
```

Description Tip about using the CLI.

Contents <number>—No documentation is available yet.

<get-clock-synchronization-information>

Usage

```
<rpc>
  <get-clock-synchronization-information>
    <extensive/>
  </get-clock-synchronization-information>
</rpc>
```

Description Show clock synchronization information.

Contents <extensive>—Show clock synchronization information in detail.

<get-commit-information>

Usage

```
<rpc>
  <get-commit-information/>
</rpc>
```

Description Show pending commit requests (if any) and commit history.

<get-core-file-information>

Usage

```
<rpc>
  <get-core-file-information>
    <detail/>
    <brief/>
    <core-filename>core-filename</core-filename>     <!-- mandatory -->
  </get-core-file-information>
</rpc>
```

Description Display the stack trace of core file.

Contents <brief>—View details of binary.

<core-filename>—Name of core file.

<detail>—View stack trace with details of binary.

<get-cos-adaptive-shaper-information>

Usage

```
<rpc>
  <get-cos-adaptive-shaper-information>
    <adaptive-shaper-name>adaptive-shaper-name</adaptive-shaper-name>
  </get-cos-adaptive-shaper-information>
</rpc>
```

Description Show trigger types and associated rate for adaptive shaper.

Contents <adaptive-shaper-name>—Name of adaptive shaper.

<get-cos-classifier-information>

Usage

```
<rpc>
  <get-cos-classifier-information>
    <classifier-name>classifier-name</classifier-name>
    <type>type-choice</type>
  </get-cos-classifier-information>
</rpc>
```

Description Show mapping of code point to forwarding class/loss priority.

Contents <classifier-name>—Name of classifier.

<type>—Type of classifier.

- dscp—Differentiated Services code point (DSCP).
- dscp-ipv6—Differentiated Services code point (DSCP) for IPv6.
- exp—MPLS experimental code point.
- ieee-802.1—IEEE-802.1 code point.
- ieee-802.1ad—IEEE-802.1ad (DEI) code point.
- inet-precedence—IPv4 precedence code point.

<get-cos-classifier-table-information>

Usage

```
<rpc>
  <get-cos-classifier-table-information/>
</rpc>
```

Description Show classifier information.

<get-cos-classifier-table-map-information>

Usage

```
<rpc>
  <get-cos-classifier-table-map-information/>
</rpc>
```

Description Show mapping of interfaces to classifiers.

<get-cos-code-point-map-information>

Usage

```
<rpc>
  <get-cos-code-point-map-information>
    <dscp/>
    <dscp-ipv6/>
    <exp/>
    <ieee-802.1/>
    <inet-precedence/>
    <ieee-802.1ad/>
  </get-cos-code-point-map-information>
</rpc>
```

Description Show mapping of symbolic name to code point bit pattern.

Contents <dscp>—Differentiated Services code point (DSCP).

<dscp-ipv6>—Differentiated Services code point (DSCP) for IPv6.

<exp>—MPLS experimental code point.

<ieee-802.1>—IEEE-802.1 code point.

<ieee-802.1ad>—IEEE-802.1ad (DEI) code point.

<inet-precedence>—IPv4 precedence code point.

<get-cos-drop-profile-information>

Usage

```
<rpc>
  <get-cos-drop-profile-information>
    <profile-name>profile-name</profile-name>
  </get-cos-drop-profile-information>
</rpc>
```

Description Show interpolated data points of named drop profile.

Contents <profile-name>—Name of drop profile.

<get-cos-fabric-scheduler-map-information>

Usage
```
<rpc>
  <get-cos-fabric-scheduler-map-information/>
</rpc>
```

Description Show fabric scheduler map information.

<get-cos-forwarding-class-information>

Usage
```
<rpc>
  <get-cos-forwarding-class-information>

<get-cos-forwarding-class-map-information>get-cos-forwarding-class-map-information
                </get-cos-forwarding-class-map-information>
  </get-cos-forwarding-class-information>
</rpc>
```

Description Show mapping of forwarding class names to queue numbers.

Contents <get-cos-forwarding-class-map-information>—Name of forwarding class map.

<get-cos-forwarding-class-map-interface-table-information>

Usage
```
<rpc>
  <get-cos-forwarding-class-map-interface-table-information/>
</rpc>
```

Description Show interface to forwarding class mapping.

<get-cos-forwarding-class-map-table-information>

Usage
```
<rpc>
  <get-cos-forwarding-class-map-table-information/>
</rpc>
```

Description Show forwarding class map information.

<get-cos-fragmentation-map-information>

Usage
```
<rpc>
  <get-cos-fragmentation-map-information>
    <fragmentation-map-name>fragmentation-map-name</fragmentation-map-name>
  </get-cos-fragmentation-map-information>
</rpc>
```

Description Show mapping of forwarding classes to fragmentation options.

Contents <fragmentation-map-name>—Name of fragmentation map.

<get-cos-fwtab-fabric-scheduler-map-information>

Usage
```
<rpc>
  <get-cos-fwtab-fabric-scheduler-map-information/>
</rpc>
```

Description Show fabric scheduler map.

<get-cos-information>

Usage
```
<rpc>
  <get-cos-information/>
</rpc>
```

Description Show class-of-service (CoS) information.

<get-cos-interface-map-information>

Usage
```
<rpc>
  <get-cos-interface-map-information>
    <interface-name>interface-name</interface-name>
  </get-cos-interface-map-information>
</rpc>
```

Description Show mapping of CoS objects to interfaces.

Contents <interface-name>—Name of interface.

<get-cos-interface-set-map-information>

Usage
```
<rpc>
  <get-cos-interface-set-map-information>
    <interface-set-name>interface-set-name</interface-set-name>
  </get-cos-interface-set-map-information>
</rpc>
```

Description Show mapping of CoS objects to interface-set.

Contents <interface-set-name>—Name of interface-set.

<get-cos-l2tp-session-map-information>

Usage
```
<rpc>
  <get-cos-l2tp-session-map-information>
    <session-id>session-id</session-id>
  </get-cos-l2tp-session-map-information>
</rpc>
```

Description Show mapping of CoS objects to L2TP sessions.

Contents <session-id>—Session Index.

<get-cos-loss-priority-map-information>

Usage
```
<rpc>
  <get-cos-loss-priority-map-information>
    <loss-priority-map-name>loss-priority-map-name</loss-priority-map-name>
    <type>type-choice</type>
  </get-cos-loss-priority-map-information>
</rpc>
```

Description Show mapping of code point to loss priority.

Contents <loss-priority-map-name>—Name of loss priority map.

<type>—No documentation is available yet.

- frame-relay-de—Frame Relay discard eligible code point.

<get-cos-loss-priority-map-table-binding-information>

Usage
```
<rpc>
  <get-cos-loss-priority-map-table-binding-information/>
</rpc>
```

Description Show interface to loss priority map binding.

<get-cos-loss-priority-map-table-information>

Usage
```
<rpc>
  <get-cos-loss-priority-map-table-information/>
</rpc>
```

Description Show loss priority map table.

<get-cos-multi-destination-information>

Usage
```
<rpc>
  <get-cos-multi-destination-information/>
</rpc>
```

Description Show multi destination.

<get-cos-policer-table-map-information>

Usage
```
<rpc>
  <get-cos-policer-table-map-information/>
</rpc>
```

Description Show policer.

<get-cos-red-information>

Usage
```
<rpc>
  <get-cos-red-information/>
</rpc>
```

Description Show random early detection drop profile.

<get-cos-rewrite-information>

Usage

```
<rpc>
  <get-cos-rewrite-information>
    <rewrite-rule-name>rewrite-rule-name</rewrite-rule-name>
    <type>type-choice</type>
  </get-cos-rewrite-information>
</rpc>
```

Description Show mapping of forwarding class/loss priority to code point.

Contents <rewrite-rule-name>—Name of rewrite rule.

<type>—Type of rewrite rule.

- dscp—Differentiated Services code point (DSCP).
- dscp-ipv6—Differentiated Services code point (DSCP) for IPv6.
- exp—MPLS experimental code point.
- frame-relay-de—Frame relay discard eligible bit code point.
- ieee-802.1—IEEE-802.1 code point.
- ieee-802.1ad—IEEE-802.1ad (DEI) code point.
- inet-precedence—IPv4 precedence code point.

<get-cos-rewrite-table-information>

Usage

```
<rpc>
  <get-cos-rewrite-table-information/>
</rpc>
```

Description Show rewrite information.

<get-cos-rewrite-table-map-information>

Usage

```
<rpc>
  <get-cos-rewrite-table-map-information/>
</rpc>
```

Description Show interface to rewrite rule mapping.

<get-cos-routing-instance-map-information>

Usage
```
<rpc>
  <get-cos-routing-instance-map-information>
    <routing-instance-name>routing-instance-name</routing-instance-name>
  </get-cos-routing-instance-map-information>
</rpc>
```

Description Show mapping of CoS objects to routing instance.

Contents <routing-instance-name>—Name of routing instance.

<get-cos-scheduler-map-information>

Usage
```
<rpc>
  <get-cos-scheduler-map-information>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
  </get-cos-scheduler-map-information>
</rpc>
```

Description Show mapping of forwarding classes to schedulers.

Contents <scheduler-map-name>—Name of scheduler map.

<get-cos-scheduler-map-table-information>

Usage
```
<rpc>
  <get-cos-scheduler-map-table-information/>
</rpc>
```

Description Show scheduler map.

<get-cos-shaper-table-map-information>

Usage
```
<rpc>
  <get-cos-shaper-table-map-information/>
</rpc>
```

Description Show shaper.

<get-cos-table-information>

Usage
```
<rpc>
  <get-cos-table-information/>
</rpc>
```

Description Show forwarding table information.

<get-cos-traffic-control-profile-information>

Usage

```
<rpc>
  <get-cos-traffic-control-profile-information>
    <traffic-control-profile-name>traffic-control-profile-name
                </traffic-control-profile-name>
  </get-cos-traffic-control-profile-information>
</rpc>
```

Description Show traffic control profiles.

Contents <traffic-control-profile-name>—Name of traffic control profile.

<get-cos-translation-table-information>

Usage

```
<rpc>
  <get-cos-translation-table-information/>
</rpc>
```

Description Show translation table information.

<get-cos-translation-table-map-information>

Usage

```
<rpc>
  <get-cos-translation-table-map-information>
    <translation-table-name>translation-table-name</translation-table-name>
    <type>type-choice</type>
  </get-cos-translation-table-map-information>
</rpc>
```

Description Show mapping of code point to code point.

Contents <translation-table-name>—Name of translation table.

<type>—Type of translation table.

- to-dscp-from-dscp—DSCP to DSCP translation table.
- to-dscp-ipv6-from-dscp-ipv6—DSCP IPV6 to DSCP IPV6 translation table.
- to-exp-from-exp—EXP to EXP translation table.
- to-inet-precedence-from-inet-precedence—INET PRECEDENCE to INET PRECEDENCE translation table.

<get-cos-translation-table-mapping-information>

Usage
```
<rpc>
  <get-cos-translation-table-mapping-information/>
</rpc>
```

Description Show mapping of interfaces to translation table.

<get-cos-virtual-channel-group-information>

Usage
```
<rpc>
  <get-cos-virtual-channel-group-information>
    <virtual-channel-group-name>virtual-channel-group-name
                </virtual-channel-group-name>
  </get-cos-virtual-channel-group-information>
</rpc>
```

Description Show virtual channel group information.

Contents <virtual-channel-group-name>—Name of virtual channel group.

<get-cos-virtual-channel-information>

Usage
```
<rpc>
  <get-cos-virtual-channel-information>
    <virtual-channel-name>virtual-channel-name</virtual-channel-name>
  </get-cos-virtual-channel-information>
</rpc>
```

Description Show virtual channel names.

Contents <virtual-channel-name>—Name of virtual channel.

<get-craft-information>

Usage
```
<rpc>
  <get-craft-information/>
</rpc>
```

Description Show craft interface status.

<get-crl-information>

Usage
```
<rpc>
  <get-crl-information>
    <brief/>
    <detail/>
    <crl-name>crl-name</crl-name>
  </get-crl-information>
</rpc>
```

Description Show IPSec digital certificate revocation lists.

Contents <brief>—Display brief output.

<crl-name>—Name of CRL.

<detail>—Display detailed output.

<get-database-replication-statistics-information>

Usage
```
<rpc>
  <get-database-replication-statistics-information/>
</rpc>
```

Description Show database replication statistics.

<get-database-replication-summary-information>

Usage
```
<rpc>
  <get-database-replication-summary-information/>
</rpc>
```

Description Show database replication summary.

<get-destination-class-statistics>

Usage
```
<rpc>
  <get-destination-class-statistics>
    <class-name>class-name</class-name>     <!-- mandatory -->
    <interface-name>interface-name</interface-name>
  </get-destination-class-statistics>
</rpc>
```

Description Show statistics for destination class.

Contents <class-name>—Name of destination class.

<interface-name>—Name of logical interface.

<get-dhcp-binding-information>

Usage

```
<rpc>
  <get-dhcp-binding-information>
    <detail/>
    <address>address</address>
  </get-dhcp-binding-information>
</rpc>
```

Description Show DHCP client binding information.

Contents <address>—Address of DHCP client binding.

<detail>—Display detailed information.

<get-dhcp-conflict-information>

Usage

```
<rpc>
  <get-dhcp-conflict-information/>
</rpc>
```

Description Show DHCP address conflict.

<get-dhcp-global-information>

Usage

```
<rpc>
  <get-dhcp-global-information/>
</rpc>
```

Description Show DHCP global scope information.

<get-dhcp-pool-information>

Usage

```
<rpc>
  <get-dhcp-pool-information>
    <detail/>
    <subnet-address>subnet-address</subnet-address>
  </get-dhcp-pool-information>
</rpc>
```

Description Show DHCP address pool information.

Contents <detail>—Display detailed information.

<subnet-address>—Logical subnet of address pool.

<get-dhcp-relay-binding-information>

Usage

```
<rpc>
  <get-dhcp-relay-binding-information>
    <detail/>
    <address>address</address>
    <routing-instance>routing-instance</routing-instance>
    <bridge-domain>bridge-domain</bridge-domain>
    <logical-system>logical-system</logical-system>
  </get-dhcp-relay-binding-information>
</rpc>
```

Description Show DHCP relay client binding information.

Contents <address>—IP address or MAC address of DHCP client binding.

<bridge-domain>—Name of bridge domain.

<detail>—Display detailed information.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-dhcp-relay-statistics-information>

Usage

```
<rpc>
  <get-dhcp-relay-statistics-information>
    <routing-instance>routing-instance</routing-instance>
    <bridge-domain>bridge-domain</bridge-domain>
    <logical-system>logical-system</logical-system>
  </get-dhcp-relay-statistics-information>
</rpc>
```

Description Show DHCP statistics.

Contents <bridge-domain>—Name of bridge domain.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-dhcp-server-binding-information>

Usage

```
<rpc>
  <get-dhcp-server-binding-information>
    <detail/>
    <address>address</address>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-dhcp-server-binding-information>
</rpc>
```

Description Show DHCP server client binding information.

Contents <address>—IP address or MAC address of DHCP client binding.

<detail>—Display detailed information.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-dhcp-server-statistics-information>

Usage

```
<rpc>
  <get-dhcp-server-statistics-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-dhcp-server-statistics-information>
</rpc>
```

Description Show DHCP server statistics.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-dhcp-statistics-information>

Usage

```
<rpc>
  <get-dhcp-statistics-information/>
</rpc>
```

Description Show DHCP statistics.

<get-diameter-function-information>

Usage

```
<rpc>
  <get-diameter-function-information>
    <summary/>
    <brief/>
    <detail/>
    <func-name>func-name</func-name>
  </get-diameter-function-information>
</rpc>
```

Description Show diameter function information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<func-name>—Function name.

<summary>—Display summary output(default).

<get-diameter-function-statistics>

Usage

```
<rpc>
  <get-diameter-function-statistics>
    <summary/>
    <brief/>
    <detail/>
    <function-statistics-name>function-statistics-name</function-statistics-name>
  </get-diameter-function-statistics>
</rpc>
```

Description Show diameter function statistics.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<function-statistics-name>—Function name.

<summary>—Display summary output(default).

<get-diameter-information>

Usage

```
<rpc>
  <get-diameter-information>
    <summary/>
    <brief/>
    <detail/>
  </get-diameter-information>
</rpc>
```

Description Show diameter information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<summary>—Display summary output(default).

<get-diameter-instance-information>

Usage

```
<rpc>
  <get-diameter-instance-information>
    <summary/>
    <brief/>
    <detail/>
    <instance-name>instance-name</instance-name>
  </get-diameter-instance-information>
</rpc>
```

Description Show diameter instance information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<instance-name>—Instance name.

<summary>—Display summary output(default).

<get-diameter-network-element-information>

Usage

```
<rpc>
  <get-diameter-network-element-information>
    <summary/>
    <brief/>
    <detail/>
    <network-element-name>network-element-name</network-element-name>
  </get-diameter-network-element-information>
</rpc>
```

Description Show diameter network-element information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<network-element-name>—Network-element name.

<summary>—Display summary output(default).

<get-diameter-network-element-map-information>

Usage

```
<rpc>
  <get-diameter-network-element-map-information>
    <summary/>
    <brief/>
    <detail/>
    <network-element-map-name>network-element-map-name</
network-element-map-name>
  </get-diameter-network-element-map-information>
</rpc>
```

Description Show diameter network-element map to peers.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<network-element-map-name>—Network-element name.

<summary>—Display summary output(default).

<get-diameter-peer-information>

Usage

```
<rpc>
  <get-diameter-peer-information>
    <summary/>
    <brief/>
    <detail/>
    <peer-name>peer-name</peer-name>
  </get-diameter-peer-information>
</rpc>
```

Description Show diameter peer information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<peer-name>—Peer name.

<summary>—Display summary output(default).

<get-diameter-peer-map-information>

Usage

```
<rpc>
  <get-diameter-peer-map-information>
    <summary/>
    <brief/>
    <detail/>
    <peer-map-name>peer-map-name</peer-map-name>
  </get-diameter-peer-map-information>
</rpc>
```

Description Show diameter peer mapping to network-elements.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<peer-map-name>—Peer name.

<summary>—Display summary output(default).

<get-diameter-peer-statistics>

Usage

```
<rpc>
  <get-diameter-peer-statistics>
    <summary/>
    <brief/>
    <detail/>
    <peer-statistics-name>peer-statistics-name</peer-statistics-name>
  </get-diameter-peer-statistics>
</rpc>
```

Description Show diameter peer statistics.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<peer-statistics-name>—Peer name.

<summary>—Display summary output(default).

<get-diameter-route-information>

Usage

```
<rpc>
  <get-diameter-route-information>
    <summary/>
    <brief/>
    <detail/>
    <route-name>route-name</route-name>
  </get-diameter-route-information>
</rpc>
```

Description Show diameter route information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<route-name>—Route name.

<summary>—Display summary output(default).

<get-directory-usage-information>

Usage

```
<rpc>
  <get-directory-usage-information>
    <path>path</path>
    <depth>depth</depth>
  </get-directory-usage-information>
</rpc>
```

Description Show local directory information.

Contents <depth>—Depth of directories to traverse.

<path>—Path of root directory to traverse.

<get-dot1x-authentication-failed-users>

Usage

```
<rpc>
  <get-dot1x-authentication-failed-users/>
</rpc>
```

Description List users who have failed 802.1X authentication.

<get-dot1x-interface-information>

Usage

```
<rpc>
  <get-dot1x-interface-information>
    <brief/>
    <detail/>
    <interface-name>interface-name</interface-name>
  </get-dot1x-interface-information>
</rpc>
```

Description Show 802.1X interface information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<interface-name>—Name of interface.

<get-dot1x-interface-mac-addresses>

Usage
```
<rpc>
  <get-dot1x-interface-mac-addresses>
    <interface-name>interface-name</interface-name>
  </get-dot1x-interface-mac-addresses>
</rpc>
```

Description Show 802.1X static MAC addresses on this interface.

Contents <interface-name>—Show static MAC addresses of interface.

<get-dot1x-static-mac-addresess>

Usage
```
<rpc>
  <get-dot1x-static-mac-addresess/>
</rpc>
```

Description Show 802.1X static MAC addresses.

<get-dvmrp-interfaces-information>

Usage
```
<rpc>
  <get-dvmrp-interfaces-information>
    <logical-system>logical-system</logical-system>
  </get-dvmrp-interfaces-information>
</rpc>
```

Description Show DVMRP interfaces.

Contents <logical-system>—Name of logical system, or 'all'.

<get-dvmrp-neighbors-information>

Usage
```
<rpc>
  <get-dvmrp-neighbors-information>
    <logical-system>logical-system</logical-system>
  </get-dvmrp-neighbors-information>
</rpc>
```

Description Show DVMRP neighbors.

Contents <logical-system>—Name of logical system, or 'all'.

<get-dvmrp-prefix-information>

Usage

```
<rpc>
  <get-dvmrp-prefix-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <prefix>prefix</prefix>
  </get-dvmrp-prefix-information>
</rpc>
```

Description Show DVMRP prefixes.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<prefix>—DVMRP prefix.

<get-dvmrp-prunes-information>

Usage

```
<rpc>
  <get-dvmrp-prunes-information>
    <logical-system>logical-system</logical-system>
    <all/>
    <rx/>
    <tx/>
  </get-dvmrp-prunes-information>
</rpc>
```

Description Show DVMRP prunes.

Contents <all>—Display both received and transmitted prunes.

<logical-system>—Name of logical system, or 'all'.

<rx>—Display received prunes.

<tx>—Display transmitted prunes.

<get-elmi-information>

Usage
```
<rpc>
  <get-elmi-information>
    <interface>interface</interface>
  </get-elmi-information>
</rpc>
```

Description Show ethernet local management information.

Contents <interface>—Name of interface.

<get-elmi-statistics>

Usage
```
<rpc>
  <get-elmi-statistics>
    <interface>interface</interface>
  </get-elmi-statistics>
</rpc>
```

Description Show ethernet local management statistics.

Contents <interface>—Name of interface.

<get-environment-cb-information>

Usage
```
<rpc>
  <get-environment-cb-information>
    <slot>slot</slot>
  </get-environment-cb-information>
</rpc>
```

Description Show Control Board information.

Contents <slot>—CB slot number.

<get-environment-cip-information>

Usage
```
<rpc>
  <get-environment-cip-information>
    <slot>slot</slot>
  </get-environment-cip-information>
</rpc>
```

Description Show Connector Interface Panel Information.

Contents <slot>—CIP slot number.

<get-environment-feb-information>

Usage
```
<rpc>
  <get-environment-feb-information>
    <slot>slot</slot>
  </get-environment-feb-information>
</rpc>
```

Description Show Forwarding Engine Board information.

Contents <slot>—FEB slot number.

<get-environment-fpc-information>

Usage
```
<rpc>
  <get-environment-fpc-information>
    <fpc-slot>fpc-slot</fpc-slot>
  </get-environment-fpc-information>
</rpc>
```

Description Show Flexible PIC Concentrator information.

Contents <fpc-slot>—FPC slot number.

<get-environment-fpm-information>

Usage
```
<rpc>
  <get-environment-fpm-information/>
</rpc>
```

Description Show craft interface information.

<get-environment-information>

Usage
```
<rpc>
  <get-environment-information/>
</rpc>
```

Description Show component status and temperature, cooling system speeds.

<get-environment-mcs-information>

Usage
```
<rpc>
  <get-environment-mcs-information>
    <slot>slot</slot>
  </get-environment-mcs-information>
</rpc>
```

Description Show Miscellaneous Control Subsystem information.

Contents <slot>—MCS slot number.

<get-environment-pcg-information>

Usage
```
<rpc>
  <get-environment-pcg-information>
    <slot>slot</slot>
  </get-environment-pcg-information>
</rpc>
```

Description Show Packet Forwarding Engine Clock Generator information.

Contents <slot>—PCG slot number.

<get-environment-pem-information>

Usage
```
<rpc>
  <get-environment-pem-information>
    <slot>slot</slot>
  </get-environment-pem-information>
</rpc>
```

Description Show Power Entry Module information.

Contents <slot>—PEM slot number.

<get-environment-psu-information>

Usage
```
<rpc>
  <get-environment-psu-information>
    <slot>slot</slot>
  </get-environment-psu-information>
</rpc>
```

Description Show Power Supply Unit information.

Contents <slot>—PSU slot number.

<get-environment-re-information>

Usage
```
<rpc>
  <get-environment-re-information>
    <slot>slot</slot>
  </get-environment-re-information>
</rpc>
```

Description Show Routing Engine information.

Contents <slot>—Routing Engine slot number.

<get-environment-scg-information>

Usage
```
<rpc>
  <get-environment-scg-information>
    <slot>slot</slot>
  </get-environment-scg-information>
</rpc>
```

Description Show SONET Clock Generator information.

Contents <slot>—SCG slot number.

<get-environment-sfm-information>

Usage
```
<rpc>
  <get-environment-sfm-information>
    <sfm_plane>sfm_plane</sfm_plane>
  </get-environment-sfm-information>
</rpc>
```

Description Show Switching and Forwarding Module information.

Contents <sfm_plane>—SFM slot number.

<get-environment-sib-information>

Usage
```
<rpc>
  <get-environment-sib-information>
    <sib-slot>sib-slot</sib-slot>
  </get-environment-sib-information>
</rpc>
```

Description Show Switch Interface Board information.

Contents <sib-slot>—SIB slot number.

<get-esis-adjacency-information>

Usage

```
<rpc>
  <get-esis-adjacency-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <esis-neighbor-id>esis-neighbor-id</esis-neighbor-id>
  </get-esis-adjacency-information>
</rpc>
```

Description Show ES-IS adjacency database.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<esis-neighbor-id>—NSAP/NET of end system.

<extensive>—Display extensive output.

<instance>—Name of ES-IS instance.

<logical-system>—Name of logical system, or 'all'.

<get-esis-interface-information>

Usage

```
<rpc>
  <get-esis-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <interface-name>interface-name</interface-name>
  </get-esis-interface-information>
</rpc>
```

Description Show ES-IS interface information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of ES-IS instance.

<interface-name>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-esis-statistics-information>

Usage

```
<rpc>
  <get-esis-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-esis-statistics-information>
</rpc>
```

Description Show ES-IS performance statistics.

Contents <instance>—Name of ES-IS instance.

<logical-system>—Name of logical system, or 'all'.

<get-evc-infromation>

Usage

```
<rpc>
  <get-evc-infromation>
    <evc-id>evc-id</evc-id>
  </get-evc-infromation>
</rpc>
```

Description Show ethernet virtual circuit information.

Contents <evc-id>—EVC identifier.

<get-event-summary>

Usage

```
<rpc>
  <get-event-summary>
    <syslogfile>syslogfile</syslogfile>
    <event-id>event-id</event-id>
    <daemon-name>daemon-name</daemon-name>
    <event-description>event-description</event-description>
    <start-time>start-time</start-time>
    <end-time>end-time</end-time>
    <total-message-display>total-message-display</total-message-display>
    <show-start-event>show-start-event</show-start-event>
    <show-end-event>show-end-event</show-end-event>
    <new-search/>
    <output-file-name>output-file-name</output-file-name>
  </get-event-summary>
</rpc>
```

Description Show syslog event.

Contents

<daemon-name>—Daemon name filter.

<end-time>—End time filter. Format is mm/dd/yyyy hour:min.

<event-description>—Regular expression for description filter .

<event-id>—Event Id filter.

<new-search>—It is a new search.

<output-file-name>—File name where filtered messages are stored.

<show-end-event>—Requested event ending number.

<show-start-event>—Requested event starting number.

<start-time>—Start time filter. Format is mm/dd/yyyy hour:min.

<syslogfile>—Syslog file name filter.

<total-message-display>—Number of messages displayed per page.

<get-fabric-queue-information>

Usage
```
<rpc>
  <get-fabric-queue-information>
    <destination>destination</destination>
    <source>source</source>
    <summary/>
  </get-fabric-queue-information>
</rpc>
```

Description Show fabric queue statistics.

Contents <destination>—Destination FPC for which to show details.

<source>—Source FPC for which to show details.

<summary>—Display summary output.

<get-feb-brief-information>

Usage
```
<rpc>
  <get-feb-brief-information/>
</rpc>
```

Description Show Forwarding Engine Board status.

<get-feb-information>

Usage
```
<rpc>
  <get-feb-information>
    <feb_slot>feb_slot</feb_slot>
  </get-feb-information>
</rpc>
```

Description Show detailed output.

Contents <feb_slot>—FEB slot number.

<get-feb-redundancy-error-information>

Usage
```
<rpc>
  <get-feb-redundancy-error-information/>
</rpc>
```

Description Show error information.

<get-feb-redundancy-group-information>

Usage

```
<rpc>
  <get-feb-redundancy-group-information>
    <group>group</group>     <!-- mandatory -->
    <errors/>
  </get-feb-redundancy-group-information>
</rpc>
```

Description Show FEB redundancy group information.

Contents <errors>—Include error information.

<group>—Name of FEB redundancy group.

<get-feb-redundancy-information>

Usage

```
<rpc>
  <get-feb-redundancy-information/>
</rpc>
```

Description Show Forwarding Engine Board redundancy information.

<get-fips-pic-status-information>

Usage

```
<rpc>
  <get-fips-pic-status-information/>
</rpc>
```

Description Show FIPS PIC authorization status.

<get-firewall-counter-information>

Usage

```
<rpc>
  <get-firewall-counter-information>
    <countername>countername</countername>     <!-- mandatory -->
    <filter>filter</filter>     <!-- mandatory -->
    <logical-system>logical-system</logical-system>
  </get-firewall-counter-information>
</rpc>
```

Description Counter name.

Contents <countername>—Counter name.

<filter>—Filter name.

<logical-system>—Name of logical system, or 'all'.

<get-firewall-filter-information>

Usage

```
<rpc>
  <get-firewall-filter-information>
    <filtername>filtername</filtername>     <!-- mandatory -->
    <counter>counter</counter>
    <logical-system>logical-system</logical-system>
  </get-firewall-filter-information>
</rpc>
```

Description Filter name.

Contents <counter>—Counter name.

<filtername>—Filter name.

<logical-system>—Name of logical system, or 'all'.

<get-firewall-information>

Usage

```
<rpc>
  <get-firewall-information>
    <logical-system>logical-system</logical-system>
    <terse/>
  </get-firewall-information>
</rpc>
```

Description Show firewall information.

Contents <logical-system>—Name of logical system, or 'all'.

<terse>—Show filter names only.

<get-firewall-log-information>

Usage

```
<rpc>
  <get-firewall-log-information>
    <get-firewall-log-detailed-information/>
    <interface>interface</interface>
    <logical-system>logical-system</logical-system>
  </get-firewall-log-information>
</rpc>
```

Description Show log entries for firewall activity.

Contents <get-firewall-log-detailed-information>—Display detailed output.

<interface>—Interface name.

<logical-system>—Name of logical system, or 'all'.

<get-firewall-prefix-action-information>

Usage
```
<rpc>
  <get-firewall-prefix-action-information>
    <filter>filter</filter>     <!-- mandatory -->
    <prefix-action>prefix-action</prefix-action>     <!-- mandatory -->
    <from>from</from>
    <to>to</to>
    <logical-system>logical-system</logical-system>
  </get-firewall-prefix-action-information>
</rpc>
```

Description Show prefix-action statistics for a filter.

Contents <filter>—Filter name.

<from>—Starting counter or policer.

<logical-system>—Name of logical system, or 'all'.

<prefix-action>—Prefix-action name.

<to>—Ending counter or policer.

<get-firmware-information>

Usage
```
<rpc>
  <get-firmware-information/>
</rpc>
```

Description Show firmware and operating system version for components.

<get-flow-table-statistics-information>

Usage
```
<rpc>
  <get-flow-table-statistics-information>
    <detail/>
  </get-flow-table-statistics-information>
</rpc>
```

Description Show flow table statistics.

Contents <detail>—Show detailed statistics information.

<get-fm-fpc-state-information>

Usage
```
<rpc>
  <get-fm-fpc-state-information/>
</rpc>
```

Description Show summary fabric management FPC state from Routing Engine.

<get-fm-plane-state-information>

Usage

```
<rpc>
  <get-fm-plane-state-information>
    <terse/>
    <detail/>
    <extensive/>
  </get-fm-plane-state-information>
</rpc>
```

Description Show state of fabric management plane.

Contents <detail>—Show detail output.

<extensive>—Show extensive output.

<terse>—Show terse output.

<get-fm-sib-state-information>

Usage

```
<rpc>
  <get-fm-sib-state-information/>
</rpc>
```

Description Show summary fabric management SIB state from Routing Engine.

<get-fm-state-information>

Usage

```
<rpc>
  <get-fm-state-information/>
</rpc>
```

Description Show summary fabric management state.

<get-forwarding-table-information>

Usage

```
<rpc>
  <get-forwarding-table-information>
    <detail/>
    <extensive/>
    <multicast/>
    <family>family-choice</family>
    <vpn>vpn</vpn>
    <table>table</table>
    <bridge-domain>bridge-domain</bridge-domain>
    <summary/>
    <matching>matching</matching>
    <destination>destination</destination>
    <learning-vlan-id>learning-vlan-id</learning-vlan-id>
    <label>label</label>
    <ccc>ccc</ccc>
    <all/>
  </get-forwarding-table-information>
</rpc>
```

Description Show entries in all forwarding tables.

Contents <all>—Display all routing forwarding-tables.

<bridge-domain>—Name of bridging domain.

<ccc>—Circuit cross-connect interface name for entries to match.

<destination>—Destination prefix.

<detail>—Display all routes.

<extensive>—Display extensive information about routes.

<family>—Name of family.

- bridge—Bridge (Layer 2 switching).
- ethernet-switching—Switch forwarding table.
- inet—IP version 4 (IPv4).
- inet6—IP version 6 (IPv6).
- iso—International Standards Organization protocol.
- mpls—Multiprotocol Label Switching.
- tnp—Trivial Network Protocol.
- unix—UNIX.
- vlan-classification—VLAN classification table.

- vpls—Virtual private LAN service.

<label>—Label for entries to match.

<learning-vlan-id>—Learning VLAN.

<matching>—IP prefix and length for entries to match.

<multicast>—Display multicast routes.

<summary>—Display count of routes instead of details.

<table>—Name of routing table.

<vpn>—Name of VPN instance.

<get-fpc-feb-connectivity-information>

Usage

```
<rpc>
  <get-fpc-feb-connectivity-information/>
</rpc>
```

Description Show connectivity between Flexible PIC Concentrators and Forwarding Engine boards.

<get-fpc-information>

Usage

```
<rpc>
  <get-fpc-information>
    <detail/>
    <fpc-slot>fpc-slot</fpc-slot>
  </get-fpc-information>
</rpc>
```

Description Show Flexible PIC Concentrator status.

Contents <detail>—Display detailed output.

<fpc-slot>—FPC slot number.

<get-fru-information>

Usage

```
<rpc>
  <get-fru-information/>
</rpc>
```

Description Show Line Card Chassis (LCC) status.

<get-fwdd-information>

Usage
```
<rpc>
  <get-fwdd-information/>
</rpc>
```

Description Show forwarding process (fwdd) status.

<get-ggsn-apn-statistics-information>

Usage
```
<rpc>
  <get-ggsn-apn-statistics-information>
    <apn-name>apn-name</apn-name>
  </get-ggsn-apn-statistics-information>
</rpc>
```

Description Show access point name statistics.

Contents <apn-name>—Name of APN.

<get-ggsn-charging-statistics-information>

Usage
```
<rpc>
  <get-ggsn-charging-statistics-information/>
</rpc>
```

Description Show charging statistics.

<get-ggsn-gtp-prime-statistics-information>

Usage
```
<rpc>
  <get-ggsn-gtp-prime-statistics-information/>
</rpc>
```

Description Show GPRS Tunneling Protocol Prime statistics.

<get-ggsn-gtp-statistics-information>

Usage
```
<rpc>
  <get-ggsn-gtp-statistics-information/>
</rpc>
```

Description Show GPRS tunneling protocol statistics.

<get-ggsn-imsi-trace>

Usage

```
<rpc>
  <get-ggsn-imsi-trace>
    <imsi-identifier>imsi-identifier</imsi-identifier>     <!-- mandatory -->
  </get-ggsn-imsi-trace>
</rpc>
```

Description Show trace information for Identifier for International Mobile Subscriber Identity.

Contents <imsi-identifier>—Identifier for IMSI.

<get-ggsn-imsi-user-information>

Usage

```
<rpc>
  <get-ggsn-imsi-user-information>
    <imsi-identifier>imsi-identifier</imsi-identifier>     <!-- mandatory -->
  </get-ggsn-imsi-user-information>
</rpc>
```

Description Show International Mobile Subscriber Identity statistics.

Contents <imsi-identifier>—Identifier for IMSI.

<get-ggsn-interface-information>

Usage

```
<rpc>
  <get-ggsn-interface-information/>
</rpc>
```

Description Show GGSN operational status information.

<get-ggsn-l2tp-tunnel-statistics-information>

Usage

```
<rpc>
  <get-ggsn-l2tp-tunnel-statistics-information>
    <lac-address>lac-address</lac-address>
  </get-ggsn-l2tp-tunnel-statistics-information>
</rpc>
```

Description Show L2TP tunnel statistics.

Contents <lac-address>—IP address of LAC.

<get-ggsn-msisdn-trace>

Usage
```
<rpc>
  <get-ggsn-msisdn-trace>
    <msisdn-identifier>msisdn-identifier</msisdn-identifier>     <!-- mandatory -->
  </get-ggsn-msisdn-trace>
</rpc>
```

Description Show trace information for Mobile Station Integrated Services Digital Network.

Contents <msisdn-identifier>—Identifier for MSISDN.

<get-ggsn-radius-statistics-information>

Usage
```
<rpc>
  <get-ggsn-radius-statistics-information/>
</rpc>
```

Description Show RADIUS statistics.

<get-ggsn-sgsn-statistics-information>

Usage
```
<rpc>
  <get-ggsn-sgsn-statistics-information>
    <address>address</address>
  </get-ggsn-sgsn-statistics-information>
</rpc>
```

Description Show statistics for client Serving GPRS Support Node.

Contents <address>—IP address and optional prefix length of SGSN.

<get-ggsn-statistics>

Usage
```
<rpc>
  <get-ggsn-statistics/>
</rpc>
```

Description Show GGSN statistics.

<get-ggsn-trace>

Usage
```
<rpc>
  <get-ggsn-trace/>
</rpc>
```

Description Show all trace information.

<get-header-redirect-set-statistics-information>

Usage
```
<rpc>
  <get-header-redirect-set-statistics-information>
    <detail/>
  </get-header-redirect-set-statistics-information>
</rpc>
```

Description Show header redirect set statistics.

Contents <detail>—Display detailed statistics.

<get-health-monitor-alarm-information>

Usage
```
<rpc>
  <get-health-monitor-alarm-information>
    <brief/>
    <detail/>
  </get-health-monitor-alarm-information>
</rpc>
```

Description Show health-monitor alarms.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<get-health-monitor-information>

Usage
```
<rpc>
  <get-health-monitor-information/>
</rpc>
```

Description Show health-monitoring information.

<get-health-monitor-log-information>

Usage
```
<rpc>
  <get-health-monitor-log-information/>
</rpc>
```

Description Show health-monitoring logs.

<get-helper-statistics-information>

Usage
```
<rpc>
  <get-helper-statistics-information/>
</rpc>
```

Description Show helper statistics.

<get-history-results>

Usage
```
<rpc>
  <get-history-results>
    <brief/>
    <detail/>
    <owner>owner</owner>
    <test>test</test>
    <since>since</since>
  </get-history-results>
</rpc>
```

Description Show history results.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<owner>—Name of owner.

<since>—Show history since YYYY-MM-DD.HH:MM:SS.

<test>—Name of test.

<get-idp-application-system-cache>

Usage
```
<rpc>
  <get-idp-application-system-cache/>
</rpc>
```

Description Show IDP application system cache.

<get-idp-applications-information>

Usage
```
<rpc>
  <get-idp-applications-information/>
</rpc>
```

Description Show IDP application statistics.

<get-idp-attack-table-information>

Usage
```
<rpc>
  <get-idp-attack-table-information/>
</rpc>
```

Description Show IDP attack table.

<get-idp-counter-information>

Usage
```
<rpc>
  <get-idp-counter-information>
    <counter-class>counter-class</counter-class>     <!-- mandatory -->
  </get-idp-counter-information>
</rpc>
```

Description Show IDP counters.

Contents <counter-class>—Show IDP counters by counter class.

<get-idp-memory-information>

Usage
```
<rpc>
  <get-idp-memory-information/>
</rpc>
```

Description Show IDP data plane memory statistics.

<get-idp-predefined-attack-groups>

Usage
```
<rpc>
  <get-idp-predefined-attack-groups/>
</rpc>
```

Description Show predefined attack groups.

<get-idp-predefined-attacks>

Usage
```
<rpc>
  <get-idp-predefined-attacks/>
</rpc>
```

Description Show predefined attacks.

<get-idp-security-package-information>

Usage

```
<rpc>
  <get-idp-security-package-information>
    <re0/>
    <re1/>
  </get-idp-security-package-information>
</rpc>
```

Description Show the version of currently installed security-package.

Contents <re0>—RE0.

<re1>—RE1.

<get-idp-ssl-key-information>

Usage

```
<rpc>
  <get-idp-ssl-key-information>
    <key-name>key-name</key-name>
  </get-idp-ssl-key-information>
</rpc>
```

Description Show SSL keys.

Contents <key-name>—Key name.

<get-idp-ssl-session-cache-information>

Usage

```
<rpc>
  <get-idp-ssl-session-cache-information/>
</rpc>
```

Description Session ID cache.

<get-idp-status-information>

Usage

```
<rpc>
  <get-idp-status-information/>
</rpc>
```

Description Show IDP status.

<get-igmp-group-information>

Usage

```
<rpc>
  <get-igmp-group-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <group-name>group-name</group-name>
  </get-igmp-group-information>
</rpc>
```

Description Show IGMP group members.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Name of group.

<logical-system>—Name of logical system, or 'all'.

<get-igmp-interface-information>

Usage

```
<rpc>
  <get-igmp-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <interface-name>interface-name</interface-name>
  </get-igmp-interface-information>
</rpc>
```

Description Show IGMP interfaces.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<interface-name>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-igmp-output-group-information>

Usage

```
<rpc>
  <get-igmp-output-group-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <group-name>group-name</group-name>
  </get-igmp-output-group-information>
</rpc>
```

Description Show IGMP output group members.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Name of group.

<logical-system>—Name of logical system, or 'all'.

<get-igmp-snooping-interface-information>

Usage

```
<rpc>
  <get-igmp-snooping-interface-information>
    <brief/>
    <detail/>
    <interface>interface</interface>
    <vlan-id>vlan-id</vlan-id>
    <instance>instance</instance>
  </get-igmp-snooping-interface-information>
</rpc>
```

Description Show IGMP snooping interfaces.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<instance>—Name of routing-instance.

<interface>—Name of interface.

<vlan-id>—VLAN ID for a learning domain.

<get-igmp-snooping-membership-information>

Usage

```
<rpc>
  <get-igmp-snooping-membership-information>
    <brief/>
    <detail/>
    <group>group</group>
    <interface>interface</interface>
    <vlan-id>vlan-id</vlan-id>
    <instance>instance</instance>
  </get-igmp-snooping-membership-information>
</rpc>
```

Description Show IGMP snooping group membership.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group>—IP address range for group.

<instance>—Name of routing-instance.

<interface>—Name of interface.

<vlan-id>—VLAN ID for a learning domain.

<get-igmp-snooping-statistics-information>

Usage

```
<rpc>
  <get-igmp-snooping-statistics-information>
    <interface>interface</interface>
    <vlan-id>vlan-id</vlan-id>
    <instance>instance</instance>
  </get-igmp-snooping-statistics-information>
</rpc>
```

Description Show IGMP snooping statistics.

Contents <instance>—Name of routing-instance.

<interface>—Name of interface.

<vlan-id>—VLAN ID for a learning domain.

<get-igmp-statistics-information>

Usage

```
<rpc>
  <get-igmp-statistics-information>
    <logical-system>logical-system</logical-system>
    <interface>interface</interface>
  </get-igmp-statistics-information>
</rpc>
```

Description Show IGMP statistics.

Contents <interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-ike-security-associations-information>

Usage

```
<rpc>
  <get-ike-security-associations-information>
    <brief/>
    <detail/>
    <peer-address>peer-address</peer-address>
  </get-ike-security-associations-information>
</rpc>
```

Description Show IKE security association information.

Contents <brief>—Show brief output (default).

<detail>—Show detailed output.

<peer-address>—Name of security association.

<get-ike-services-security-associations-information>

Usage

```
<rpc>
  <get-ike-services-security-associations-information>
    <brief/>
    <detail/>
    <peer-address>peer-address</peer-address>
  </get-ike-services-security-associations-information>
</rpc>
```

Description Show services IKE security association information.

Contents <brief>—Show brief output (default).

<detail>—Show detailed output.

<peer-address>—Name of security association.

<get-instance-information>

Usage

```
<rpc>
  <get-instance-information>
    <logical-system>logical-system</logical-system>
    <summary/>
    <brief/>
    <detail/>
    <instance-name>instance-name</instance-name>
  </get-instance-information>
</rpc>
```

Description Show routing instances information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<instance-name>—Particular instance name.

<logical-system>—Name of logical system, or 'all'.

<summary>—Display summary output.

<get-interface-filter-information>

Usage

```
<rpc>
  <get-interface-filter-information>
    <interface-name>interface-name</interface-name>
  </get-interface-filter-information>
</rpc>
```

Description Show interface filters information.

Contents <interface-name>—Name of physical or logical interface.

<get-interface-information>

Usage

```
<rpc>
  <get-interface-information>
    <routing-instance>routing-instance-choice</routing-instance>
    <extensive/>
    <statistics/>
    <media/>
    <detail/>
    <terse/>
    <brief/>
    <descriptions/>
    <snmp-index>snmp-index</snmp-index>
    <switch-port>switch-port</switch-port>
    <interface-name>interface-name</interface-name>
  </get-interface-information>
</rpc>
```

Description Show interface information.

Contents <brief>—Display brief output.

<descriptions>—Display interface description strings.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface-name>—Name of physical or logical interface.

<media>—Display media information.

<routing-instance>—Name of routing instance.

- all—All instances.
- instance-name—Instance name.

<snmp-index>—SNMP index of interface.

<statistics>—Display statistics and detailed output.

<switch-port>—Front end port number.

<terse>—Display terse output.

<get-interface-location-information>

Usage
```
<rpc>
  <get-interface-location-information>
    <lcc>lcc</lcc>     <!-- mandatory -->
    <fpc>fpc</fpc>     <!-- mandatory -->
  </get-interface-location-information>
</rpc>
```

Description Show interface name given location.

Contents <fpc>—FPC number.

<lcc>—LCC number.

<get-interface-location-name-information>

Usage
```
<rpc>
  <get-interface-location-name-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </get-interface-location-name-information>
</rpc>
```

Description Show physical location given interface name.

Contents <interface-name>—Interface name.

<get-interface-optics-diagnostics-information>

Usage
```
<rpc>
  <get-interface-optics-diagnostics-information>
    <interface-name>interface-name</interface-name>
  </get-interface-optics-diagnostics-information>
</rpc>
```

Description Show interface optics-diagnostics information.

Contents <interface-name>—Name of physical interface.

<get-interface-policer-information>

Usage
```
<rpc>
  <get-interface-policer-information>
    <interface-name>interface-name</interface-name>
  </get-interface-policer-information>
</rpc>
```

Description Show interface policers information.

Contents <interface-name>—Name of physical or logical interface.

<get-interface-queue-information>

Usage

```
<rpc>
  <get-interface-queue-information>
    <forwarding-class>forwarding-class</forwarding-class>
    <ingress/>
    <egress/>
    <both-ingress-egress/>
    <aggregate/>
    <remaining-traffic/>
    <interface-name>interface-name</interface-name>
  </get-interface-queue-information>
</rpc>
```

Description Show queue statistics for this interface.

Contents <aggregate>—Display aggregate queue statistics.

<both-ingress-egress>—Display both ingress and egress queue statistics.

<egress>—Display egress queue statistics.

<forwarding-class>—Name of forwarding class.

<ingress>—Display ingress queue statistics.

<interface-name>—Name of physical interface.

<remaining-traffic>—Display remaining-traffic queue statistics.

<get-interface-set-queue-information>

Usage

```
<rpc>
  <get-interface-set-queue-information>
    <forwarding-class>forwarding-class</forwarding-class>
    <ingress/>
    <egress/>
    <both-ingress-egress/>
    <aggregate/>
    <remaining-traffic/>
    <interface-set-name>interface-set-name</interface-set-name>
  </get-interface-set-queue-information>
</rpc>
```

Description Show queue statistics for this interface-set.

Contents <aggregate>—Display aggregate queue statistics.

<both-ingress-egress>—Display both ingress and egress queue statistics.

<egress>—Display egress queue statistics.

<forwarding-class>—Name of forwarding class.

<ingress>—Display ingress queue statistics.

<interface-set-name>—Name of interface set.

<remaining-traffic>—Display remaining-traffic queue statistics.

<get-ioc-npc-connectivity-information>

Usage

```
<rpc>
  <get-ioc-npc-connectivity-information/>
</rpc>
```

Description Show connectivity between IOC and NPC.

<get-ip-mip-binding-information>

Usage

```
<rpc>
  <get-ip-mip-binding-information>
    <ip-address>ip-address</ip-address>     <!-- mandatory -->
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-ip-mip-binding-information>
</rpc>
```

Description Show binding detail based on IP address.

Contents <ip-address>—Show binding detail based on IP address.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-ipsec-pic-redundancy-information>

Usage

```
<rpc>
  <get-ipsec-pic-redundancy-information>
    <interface-name>interface-name</interface-name>
  </get-ipsec-pic-redundancy-information>
</rpc>
```

Description Show ES PIC redundancy information.

Contents <interface-name>—Name of ES interface.

<get-ipsec-tunnel-redundancy-information>

Usage

```
<rpc>
  <get-ipsec-tunnel-redundancy-information>
    <security-association-name>security-association-name
                </security-association-name>
  </get-ipsec-tunnel-redundancy-information>
</rpc>
```

Description Show remote tunnel redundancy information.

Contents <security-association-name>—Name of security association.

<get-ipv6-nd-information>

Usage

```
<rpc>
  <get-ipv6-nd-information/>
</rpc>
```

Description Show IPv6 neighbor cache information.

<get-ipv6-ra-information>

Usage

```
<rpc>
  <get-ipv6-ra-information>
    <logical-system>logical-system</logical-system>
    <interface>interface</interface>
    <conflicts/>
    <prefix>prefix</prefix>
    <virtual-router/>
  </get-ipv6-ra-information>
</rpc>
```

Description Show IPv6 router advertisement information.

Contents <conflicts>—Display conflicting information.

<interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<prefix>—Prefix and optional prefix length.

<virtual-router>—Display only virtual-interface information.

<get-isis-adjacency-information>

Usage

```
<rpc>
  <get-isis-adjacency-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <system-id>system-id</system-id>
  </get-isis-adjacency-information>
</rpc>
```

Description Show IS-IS adjacency database.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<system-id>—System ID of intermediate system.

<get-isis-authentication-information>

Usage

```
<rpc>
  <get-isis-authentication-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-isis-authentication-information>
</rpc>
```

Description Show IS-IS authentication information.

Contents <instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<get-isis-backup-coverage-information>

Usage

```
<rpc>
  <get-isis-backup-coverage-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-isis-backup-coverage-information>
</rpc>
```

Description Show IS-IS backup coverage.

Contents <instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<get-isis-backup-lsp-information>

Usage

```
<rpc>
  <get-isis-backup-lsp-information>
    <logical-system>logical-system</logical-system>
  </get-isis-backup-lsp-information>
</rpc>
```

Description Show IS-IS MPLS backup LSP information.

Contents <logical-system>—Name of logical system, or 'all'.

<get-isis-backup-spf-results-information>

Usage

```
<rpc>
  <get-isis-backup-spf-results-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <level>level</level>
    <no-coverage/>
    <topology>topology-choice</topology>
  </get-isis-backup-spf-results-information>
</rpc>
```

Description Show results from backup SPF runs.

Contents <instance>—IS-IS instance.

<level>—Number of IS-IS level.

<logical-system>—Name of logical system, or 'all'.

<no-coverage>—Destinations with no backup coverage.

<topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-database-information>

Usage

```
<rpc>
  <get-isis-database-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <level>level</level>
    <system-id>system-id</system-id>
  </get-isis-database-information>
</rpc>
```

Description Show IS-IS link-state database.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of IS-IS instance.

<level>—Number of IS-IS level.

<logical-system>—Name of logical system, or 'all'.

<system-id>—System ID of IS.

<get-isis-hostname-information>

Usage

```
<rpc>
  <get-isis-hostname-information>
    <logical-system>logical-system</logical-system>
  </get-isis-hostname-information>
</rpc>
```

Description Show IS-IS hostname database.

Contents <logical-system>—Name of logical system, or 'all'.

<get-isis-interface-information>

Usage

```
<rpc>
  <get-isis-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <interface-name>interface-name</interface-name>
  </get-isis-interface-information>
</rpc>
```

Description Show IS-IS interface information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of IS-IS instance.

<interface-name>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-isis-overview-information>

Usage

```
<rpc>
  <get-isis-overview-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-isis-overview-information>
</rpc>
```

Description Show overview of IS-IS information.

Contents <instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<get-isis-route-information>

Usage

```
<rpc>
  <get-isis-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <destination>destination</destination>
    <inet/>
    <inet6/>
    <iso/>
    <topology>topology-choice</topology>
  </get-isis-route-information>
</rpc>
```

Description Show IS-IS routing table.

Contents <destination>—IP address and optional prefix length of destination.

<inet>—Display IPv4 routes.

<inet6>—Display IPv6 routes.

<instance>—Name of IS-IS instance.

<iso>—Display CLNS routes.

<logical-system>—Name of logical system, or 'all'.

<topology>—Name of topology from which routes were learned.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-spf-log-information>

Usage

```
<rpc>
  <get-isis-spf-log-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <level>level</level>
    <topology>topology-choice</topology>
  </get-isis-spf-log-information>
</rpc>
```

Description Show log of SPF runs.

Contents <instance>—Name of IS-IS instance.

<level>—Number of IS-IS level.

<logical-system>—Name of logical system, or 'all'.

<topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-spf-results-brief-information>

Usage

```
<rpc>
  <get-isis-spf-results-brief-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <level>level</level>
    <topology>topology-choice</topology>
  </get-isis-spf-results-brief-information>
</rpc>
```

Description Show brief summary of SPF results.

Contents <instance>—Name of IS-IS instance.

<level>—Number of level.

<logical-system>—Name of logical system, or 'all'.

<topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-spf-results-information>

Usage

```
<rpc>
  <get-isis-spf-results-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <level>level</level>
    <topology>topology-choice</topology>
  </get-isis-spf-results-information>
</rpc>
```

Description Show results from SPF runs.

Contents <instance>—IS-IS instance.

<level>—Number of IS-IS level.

<logical-system>—Name of logical system, or 'all'.

<topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-statistics-information>

Usage

```
<rpc>
  <get-isis-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-isis-statistics-information>
</rpc>
```

Description Show IS-IS performance statistics.

Contents <instance>—Name of IS-IS instance.

<logical-system>—Name of logical system, or 'all'.

<get-l2ckt-connection-information>

Usage

```
<rpc>
  <get-l2ckt-connection-information>
    <logical-system>logical-system</logical-system>
    <neighbor>neighbor</neighbor>
    <interface>interface</interface>
    <down/>
    <up/>
    <up-down/>
    <brief/>
    <extensive/>
    <history/>
    <status/>
    <summary/>
  </get-l2ckt-connection-information>
</rpc>
```

Description Show the Layer 2 circuit connections.

Contents

<brief>—Display one-line version of output.

<down>—Display nonoperational connections.

<extensive>—Display connection status and history.

<history>—Display connection history.

<interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—IP address of neighbor.

<status>—Display connection and interface status (default).

<summary>—Display summary output.

<up>—Display operational connections.

<up-down>—Display both operational and nonoperational connections (default).

<get-l2tp-multilink-information>

Usage

```
<rpc>
  <get-l2tp-multilink-information>
    <extensive/>
    <brief/>
    <detail/>
    <statistics/>
    <bundle-id>bundle-id</bundle-id>
  </get-l2tp-multilink-information>
</rpc>
```

Description Show active L2TP multilink list.

Contents <brief>—Display brief output (default).

<bundle-id>—Filter by multilink bundle ID.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<statistics>—Display statistics.

<get-l2tp-session-information>

Usage

```
<rpc>
  <get-l2tp-session-information>
    <extensive/>
    <brief/>
    <detail/>
    <statistics/>
    <tunnel-group>tunnel-group</tunnel-group>
    <local-tunnel-id>local-tunnel-id</local-tunnel-id>
    <interface>interface</interface>
    <local-gateway>local-gateway</local-gateway>
    <local-gateway-name>local-gateway-name</local-gateway-name>
    <peer-gateway>peer-gateway</peer-gateway>
    <peer-gateway-name>peer-gateway-name</peer-gateway-name>
    <local-session-id>local-session-id</local-session-id>
    <user>user</user>
  </get-l2tp-session-information>
</rpc>
```

Description Show active L2TP session list.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Interface name to use as filter.

<local-gateway>—Local gateway address to use as filter.

<local-gateway-name>—Local gateway name to use as filter.

<local-session-id>—Local session ID to use as filter.

<local-tunnel-id>—Local tunnel ID to use as filter.

<peer-gateway>—Peer gateway address to use as filter.

<peer-gateway-name>—Peer gateway name to use as filter.

<statistics>—Display statistics.

<tunnel-group>—Tunnel group to use as filter.

<user>—Username to use as filter.

<get-l2tp-summary-information>

Usage

```
<rpc>
  <get-l2tp-summary-information>
    <interface>interface</interface>
  </get-l2tp-summary-information>
</rpc>
```

Description Show L2TP summary information.

Contents <interface>—Name of adaptive services interface.

<get-l2tp-tunnel-information>

Usage

```
<rpc>
  <get-l2tp-tunnel-information>
    <extensive/>
    <brief/>
    <detail/>
    <statistics/>
    <tunnel-group>tunnel-group</tunnel-group>
    <local-tunnel-id>local-tunnel-id</local-tunnel-id>
    <interface>interface</interface>
    <local-gateway>local-gateway</local-gateway>
    <local-gateway-name>local-gateway-name</local-gateway-name>
    <peer-gateway>peer-gateway</peer-gateway>
    <peer-gateway-name>peer-gateway-name</peer-gateway-name>
  </get-l2tp-tunnel-information>
</rpc>
```

Description Show active L2TP tunnel list.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Interface name to use as filter.

<local-gateway>—Local gateway address to use as filter.

<local-gateway-name>—Local gateway name to use as filter.

<local-tunnel-id>—Local tunnel ID to use as filter.

<peer-gateway>—Peer gateway address to use as filter.

<peer-gateway-name>—Peer gateway name to use as filter.

<statistics>—Display statistics.

<tunnel-group>—Tunnel group to use as filter.

<get-l2vpn-connection-information>

Usage

```
<rpc>
  <get-l2vpn-connection-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <local-site>local-site</local-site>
    <remote-site>remote-site</remote-site>
    <down/>
    <up/>
    <up-down/>
    <brief/>
    <extensive/>
    <history/>
    <status/>
    <summary/>
  </get-l2vpn-connection-information>
</rpc>
```

Description Show Layer 2 VPN connections information.

Contents <brief>—Display one-line version of output.

<down>—Display nonoperational connections.

<extensive>—Display connection status and history.

<history>—Display connection history.

<instance>—Name of Layer 2 VPN instance.

<local-site>—Name or ID of Layer 2 VPN local site.

<logical-system>—Name of logical system, or 'all'.

<remote-site>—ID of Layer 2 VPN remote site.

<status>—Display connection and circuit status (default).

<summary>—Display summary output.

<up>—Display operational connections.

<up-down>—Display both non- and operational connections (default).

<get-lacp-interface-information>

Usage

```
<rpc>
  <get-lacp-interface-information>
    <interface-name>interface-name</interface-name>
  </get-lacp-interface-information>
</rpc>
```

Description Show LACP interfaces information.

Contents <interface-name>—Name of interface.

<get-lacp-interface-statistics>

Usage

```
<rpc>
  <get-lacp-interface-statistics>
    <interface-name>interface-name</interface-name>
  </get-lacp-interface-statistics>
</rpc>
```

Description Show LACP interface statistics.

Contents <interface-name>—Name of interface.

<get-ldp-database-information>

Usage

```
<rpc>
  <get-ldp-database-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <session>session</session>
    <inet/>
    <l2circuit/>
  </get-ldp-database-information>
</rpc>
```

Description Show LDP label database.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<inet>—Display IPv4 bindings.

<instance>—Name of LDP routing instance.

<l2circuit>—Display Layer 2 circuit bindings.

<logical-system>—Name of logical system, or 'all'.

<session>—IP address of session destination.

<get-ldp-fec-filters-information>

Usage

```
<rpc>
  <get-ldp-fec-filters-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <fec>fec</fec>
  </get-ldp-fec-filters-information>
</rpc>
```

Description Show filters for forwarding equivalence classes.

Contents <fec>—Forwarding equivalence class.

<instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<get-ldp-interface-information>

Usage

```
<rpc>
  <get-ldp-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <interface-name>interface-name</interface-name>
  </get-ldp-interface-information>
</rpc>
```

Description Show LDP interface status.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of LDP routing instance.

<interface-name>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-ldp-neighbor-information>

Usage

```
<rpc>
  <get-ldp-neighbor-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <neighbor>neighbor</neighbor>
  </get-ldp-neighbor-information>
</rpc>
```

Description Show LDP neighbor status.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—IP address of the neighbor.

<get-ldp-path-information>

Usage

```
<rpc>
  <get-ldp-path-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <destination>destination</destination>
  </get-ldp-path-information>
</rpc>
```

Description Show LDP path table.

Contents <brief>—Display brief output (default).

<destination>—IP address and optional prefix length of destination.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<get-ldp-route-information>

Usage

```
<rpc>
  <get-ldp-route-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <destination>destination</destination>
  </get-ldp-route-information>
</rpc>
```

Description Show LDP internal topology table.

Contents <brief>—Display brief output (default).

<destination>—IP address and optional prefix length of destination.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<get-ldp-session-information>

Usage

```
<rpc>
  <get-ldp-session-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <instance>instance</instance>
    <destination>destination</destination>
  </get-ldp-session-information>
</rpc>
```

Description Show LDP session status.

Contents <brief>—Display brief output (default).

<destination>—IP address of session destination.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<get-ldp-statistics-information>

Usage

```
<rpc>
  <get-ldp-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-ldp-statistics-information>
</rpc>
```

Description Show LDP statistics.

Contents <instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<get-ldp-traffic-statistics-information>

Usage
```
<rpc>
  <get-ldp-traffic-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-ldp-traffic-statistics-information>
</rpc>
```

Description Show packet statistics for LDP label-switched paths.

Contents <instance>—Name of LDP routing instance.

<logical-system>—Name of logical system, or 'all'.

<get-lfmd-information>

Usage
```
<rpc>
  <get-lfmd-information>
    <detail/>
    <brief/>
    <interface-name>interface-name</interface-name>
  </get-lfmd-information>
</rpc>
```

Description Show link-fault-management information.

Contents <brief>—Display brief data (default).

<detail>—Display detailed data.

<interface-name>—Name of physical interface.

<get-license-information>

Usage
```
<rpc>
  <get-license-information/>
</rpc>
```

Description Show installed feature licenses.

<get-license-key-information>

Usage
```
<rpc>
  <get-license-key-information/>
</rpc>
```

Description Show license keys.

<get-license-summary-information>

Usage
```
<rpc>
  <get-license-summary-information/>
</rpc>
```

Description Show feature licenses information.

<get-license-usage-summary>

Usage
```
<rpc>
  <get-license-usage-summary/>
</rpc>
```

Description Show licensed features.

<get-link-services-cpu-usage>

Usage
```
<rpc>
  <get-link-services-cpu-usage>
    <interface>interface</interface>     <!-- mandatory -->
    <brief/>
    <detail/>
  </get-link-services-cpu-usage>
</rpc>
```

Description Show cpu usage as a percentage for the specified PIC.

Contents <brief>—Display brief output (1 and 5 second average).

<detail>—Display detailed output (per cpu average).

<interface>—Name of link services interface.

<get-lldp-information>

Usage
```
<rpc>
  <get-lldp-information/>
</rpc>
```

Description Show Link Layer Discovery Protocol information.

<get-lldp-information-detail>

Usage
```
<rpc>
  <get-lldp-information-detail/>
</rpc>
```

Description Show detailed LLDP information.

<get-lldp-local-info>

Usage
```
<rpc>
  <get-lldp-local-info/>
</rpc>
```

Description Show LLDP information of local device.

<get-lldp-neighbors-information>

Usage
```
<rpc>
  <get-lldp-neighbors-information/>
</rpc>
```

Description Show LLDP neighbor information.

<get-lldp-remote-global-statistics>

Usage
```
<rpc>
  <get-lldp-remote-global-statistics/>
</rpc>
```

Description Show LLDP remote global statistics information.

<get-lldp-statistics-information>

Usage
```
<rpc>
  <get-lldp-statistics-information/>
</rpc>
```

Description Show LLDP statistics.

<get-lm-information>

Usage
```
<rpc>
  <get-lm-information/>
</rpc>
```

Description Show link management information.

<get-lm-peer-information>

Usage
```
<rpc>
  <get-lm-peer-information>
    <peer-name>peer-name</peer-name>
  </get-lm-peer-information>
</rpc>
```

Description Show peer information.

Contents <peer-name>—Name of peer.

<get-lm-peer-statistics>

Usage
```
<rpc>
  <get-lm-peer-statistics>
    <peer-name>peer-name</peer-name>
  </get-lm-peer-statistics>
</rpc>
```

Description Show link management statistics for a peer.

Contents <peer-name>—Name of peer.

<get-lm-routing-information>

Usage
```
<rpc>
  <get-lm-routing-information/>
</rpc>
```

Description Show link management information for routing.

<get-lm-routing-peer-information>

Usage
```
<rpc>
  <get-lm-routing-peer-information>
    <peer-name>peer-name</peer-name>
  </get-lm-routing-peer-information>
</rpc>
```

Description Show peer information.

Contents <peer-name>—Name of peer.

<get-lm-routing-resource-information>

Usage

```
<rpc>
  <get-lm-routing-resource-information>
    <resource-name>resource-name</resource-name>
  </get-lm-routing-resource-information>
</rpc>
```

Description Show resource information.

Contents <resource-name>—Name of resource.

<get-lm-routing-te-link-information>

Usage

```
<rpc>
  <get-lm-routing-te-link-information>
    <brief/>
    <detail/>
    <link-name>link-name</link-name>
  </get-lm-routing-te-link-information>
</rpc>
```

Description Show traffic engineering links information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<link-name>—Name of traffic engineering link.

<get-lm-statistics-information>

Usage

```
<rpc>
  <get-lm-statistics-information/>
</rpc>
```

Description Show link management statistics.

<get-lm-te-link-information>

Usage

```
<rpc>
  <get-lm-te-link-information>
    <brief/>
    <detail/>
    <link-name>link-name</link-name>
  </get-lm-te-link-information>
</rpc>
```

Description Show traffic engineering links information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<link-name>—Name of traffic engineering link.

<get-mac-database>

Usage

```
<rpc>
  <get-mac-database>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
    <mac-address>mac-address</mac-address>
  </get-mac-database>
</rpc>
```

Description Show media access control database information.

Contents <interface-name>—Name of physical or logical interface.

<mac-address>—MAC address.

<get-mip-binding-information>

Usage

```
<rpc>
  <get-mip-binding-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-mip-binding-information>
</rpc>
```

Description Show binding information.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-mip-ha-interface-information>

Usage

```
<rpc>
  <get-mip-ha-interface-information>
    <interface-name>interface-name</interface-name>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-mip-ha-interface-information>
</rpc>
```

Description Show home-agent details on the interfaces it is running.

Contents <interface-name>—Show home-agent details based on interface.

<logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-mip-ha-overview-information>

Usage

```
<rpc>
  <get-mip-ha-overview-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-mip-ha-overview-information>
</rpc>
```

Description Show overview.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-mip-ha-traffic-information>

Usage

```
<rpc>
  <get-mip-ha-traffic-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-mip-ha-traffic-information>
</rpc>
```

Description Show traffic information.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-mip-ha-virtual-network-information>

Usage

```
<rpc>
  <get-mip-ha-virtual-network-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-mip-ha-virtual-network-information>
</rpc>
```

Description Show virtual network related information.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-mip-wimax-release-information>

Usage

```
<rpc>
  <get-mip-wimax-release-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-mip-wimax-release-information>
</rpc>
```

Description Show WiMAX release supported by Mobile IP.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-mld-group-information>

Usage

```
<rpc>
  <get-mld-group-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <group-name>group-name</group-name>
  </get-mld-group-information>
</rpc>
```

Description Show MLD group members.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Name of group.

<logical-system>—Name of logical system, or 'all'.

<get-mld-interface-information>

Usage

```
<rpc>
  <get-mld-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <interface-name>interface-name</interface-name>
  </get-mld-interface-information>
</rpc>
```

Description Show MLD interfaces.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<interface-name>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-mld-output-group-information>

Usage

```
<rpc>
  <get-mld-output-group-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <group-name>group-name</group-name>
  </get-mld-output-group-information>
</rpc>
```

Description Show MLD output group members.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group-name>—Name of group.

<logical-system>—Name of logical system, or 'all'.

<get-mld-statistics-information>

Usage
```
<rpc>
  <get-mld-statistics-information>
    <logical-system>logical-system</logical-system>
    <interface>interface</interface>
  </get-mld-statistics-information>
</rpc>
```

Description Show MLD statistics.

Contents <interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-mpls-admin-group-information>

Usage
```
<rpc>
  <get-mpls-admin-group-information>
    <logical-system>logical-system</logical-system>
  </get-mpls-admin-group-information>
</rpc>
```

Description Show MPLS administrative groups.

Contents <logical-system>—Name of logical system, or 'all'.

<get-mpls-call-admission-control-information>

Usage
```
<rpc>
  <get-mpls-call-admission-control-information>
    <logical-system>logical-system</logical-system>
    <lsp-name>lsp-name</lsp-name>
  </get-mpls-call-admission-control-information>
</rpc>
```

Description Show CAC information for MPLS LSPs.

Contents <logical-system>—Name of logical system, or 'all'.

<lsp-name>—Name of LSP.

<get-mpls-cspf-information>

Usage
```
<rpc>
  <get-mpls-cspf-information>
    <logical-system>logical-system</logical-system>
  </get-mpls-cspf-information>
</rpc>
```

Description Show Constrained Shortest Path First statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<get-mpls-diffserv-te-information>

Usage
```
<rpc>
  <get-mpls-diffserv-te-information>
    <logical-system>logical-system</logical-system>
  </get-mpls-diffserv-te-information>
</rpc>
```

Description Show MPLS Differentiated Services traffic engineering global properties.

Contents <logical-system>—Name of logical system, or 'all'.

<get-mpls-interface-information>

Usage
```
<rpc>
  <get-mpls-interface-information>
    <logical-system>logical-system</logical-system>
  </get-mpls-interface-information>
</rpc>
```

Description Show MPLS interfaces.

Contents <logical-system>—Name of logical system, or 'all'.

<get-mpls-lsp-defaults-information>

Usage
```
<rpc>
  <get-mpls-lsp-defaults-information>
    <logical-system>logical-system</logical-system>
  </get-mpls-lsp-defaults-information>
</rpc>
```

Description Display LSP defaults.

Contents <logical-system>—Name of logical system, or 'all'.

<get-mpls-lsp-information>

Usage

```
<rpc>
  <get-mpls-lsp-information>
    <logical-system>logical-system</logical-system>
    <ingress/>
    <egress/>
    <transit/>
    <terse/>
    <brief/>
    <detail/>
    <extensive/>
    <descriptions/>
    <up/>
    <down/>
    <unidirectional/>
    <bidirectional/>
    <p2mp/>
    <statistics/>
    <bypass/>
    <regex>regex</regex>
  </get-mpls-lsp-information>
</rpc>
```

Description Show configured label-switched paths.

Contents <bidirectional>—Display bidirectional LSPs.

<brief>—Display brief output (default).

<bypass>—Display LSPs used for protecting other LSPs.

<descriptions>—Display LSP description strings.

<detail>—Display detailed output.

<down>—Display inactive LSPs.

<egress>—Display LSPs ending at this router.

<extensive>—Display extensive output.

<ingress>—Display LSPs originating at this router.

<logical-system>—Name of logical system, or 'all'.

<p2mp>—Display point-to-multipoint LSPs.

<regex>—Regular expression for LSP names to match.

<statistics>—Display packet statistics for LSPs.

<terse>—Display terse output.

<transit>—Display LSPs transiting this router.

<unidirectional>—Display unidirectional LSPs.

<up>—Display active LSPs.

<get-mpls-path-information>

Usage

```
<rpc>
  <get-mpls-path-information>
    <logical-system>logical-system</logical-system>
    <path>path</path>
  </get-mpls-path-information>
</rpc>
```

Description Show configured named paths.

Contents <logical-system>—Name of logical system, or 'all'.

<path>—Name of label-switched path.

<get-msdp-source-active-information>

Usage

```
<rpc>
  <get-msdp-source-active-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <group>group</group>
    <source>source</source>
    <peer>peer</peer>
    <local/>
    <originator>originator</originator>
    <brief/>
    <detail/>
  </get-msdp-source-active-information>
</rpc>
```

Description Show the source-active (SA) cache.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<group>—Name of group.

<instance>—Name of instance.

<local>—Display SA cache entries originating at this router.

<logical-system>—Name of logical system, or 'all'.

<originator>—IPv4 address of peer that originated SA cache entries.

<peer>—IPv4 address of peer.

<source>—Name of source.

<get-msdp-source-information>

Usage

```
<rpc>
  <get-msdp-source-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <source>source</source>
  </get-msdp-source-information>
</rpc>
```

Description Show multicast sources learned from MSDP.

Contents <instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<source>—IP address and optional prefix length of source.

<get-msdp-statistics-information>

Usage

```
<rpc>
  <get-msdp-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <peer>peer</peer>
  </get-msdp-statistics-information>
</rpc>
```

Description Show MSDP statistics.

Contents <instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<peer>—IPv4 address and optional prefix length of MSDP peers.

<get-mspinfo-connections>

Usage

```
<rpc>
  <get-mspinfo-connections>
    <inet/>
    <inet6/>
    <extensive/>
    <show-routing-instances/>
    <interface>interface</interface>
  </get-mspinfo-connections>
</rpc>
```

Description Show connection activity on the extension provider PIC.

Contents <extensive>—Display extensive output.

<inet>—Display IPv4 connections.

<inet6>—Display IPv6 connections.

<interface>—Name of extension provider interface.

<show-routing-instances>—Display routing instances.

<get-mspinfo-packages>

Usage

```
<rpc>
  <get-mspinfo-packages>
    <detail/>
    <interface>interface</interface>
  </get-mspinfo-packages>
</rpc>
```

Description Show packages loaded on the extension provider PIC.

Contents <detail>—No documentation is available yet.

<interface>—Name of extension provider interface.

<get-mspinfo-processes>

Usage

```
<rpc>
  <get-mspinfo-processes>
    <detail/>
    <wide/>
    <interface>interface</interface>
  </get-mspinfo-processes>
</rpc>
```

Description Show system process table on the extension provider PIC.

Contents <detail>—Display detailed output.

<interface>—Name of extension provider interface.

<wide>—Display information even if wider than 80 columns.

<get-mspinfo-processes-brief>

Usage

```
<rpc>
  <get-mspinfo-processes-brief>
    <interface>interface</interface>
  </get-mspinfo-processes-brief>
</rpc>
```

Description Display brief output.

Contents <interface>—Name of extension provider interface.

<get-mspinfo-processes-extensive>

Usage

```
<rpc>
  <get-mspinfo-processes-extensive>
    <interface>interface</interface>
  </get-mspinfo-processes-extensive>
</rpc>
```

Description Display brief output.

Contents <interface>—Name of extension provider interface.

<get-mspinfo-uptime>

Usage

```
<rpc>
  <get-mspinfo-uptime>
    <interface>interface</interface>
  </get-mspinfo-uptime>
</rpc>
```

Description Show uptime on the extension provider PIC.

Contents <interface>—Name of extension provider interface.

<get-mspinfo-virtual-memory>

Usage

```
<rpc>
  <get-mspinfo-virtual-memory>
    <interface>interface</interface>
  </get-mspinfo-virtual-memory>
</rpc>
```

Description Show kernel dynamic memory usage on the extension provider PIC.

Contents <interface>—Name of extension provider interface.

<get-multicast-backup-pe-address-information>

Usage

```
<rpc>
  <get-multicast-backup-pe-address-information>
    <logical-system>logical-system</logical-system>
    <pe_address>pe_address</pe_address>     <!-- mandatory -->
  </get-multicast-backup-pe-address-information>
</rpc>
```

Description Show groups a PE address is associated with.

Contents <logical-system>—Name of logical system, or 'all'.

<pe_address>—IP address of the PE.

<get-multicast-backup-pe-groups-information>

Usage

```
<rpc>
  <get-multicast-backup-pe-groups-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-multicast-backup-pe-groups-information>
</rpc>
```

Description Show backup PE groups.

Contents <instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-multicast-flow-maps-information>

Usage

```
<rpc>
  <get-multicast-flow-maps-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
  </get-multicast-flow-maps-information>
</rpc>
```

Description Show configured flow maps.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<get-multicast-interface-information>

Usage

```
<rpc>
  <get-multicast-interface-information>
    <logical-system>logical-system</logical-system>
  </get-multicast-interface-information>
</rpc>
```

Description Show configured interfaces.

Contents <logical-system>—Name of logical system, or 'all'.

<get-multicast-next-hops-information>

Usage

```
<rpc>
  <get-multicast-next-hops-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <identifier>identifier</identifier>
    <inet/>
    <inet6/>
  </get-multicast-next-hops-information>
</rpc>
```

Description Show the multicast next-hop table.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<identifier>—ID of next hop.

<inet>—Display IPv4 information.

<inet6>—Display IPv6 information.

<logical-system>—Name of logical system, or 'all'.

<get-multicast-pim-to-igmp-proxy-information>

Usage

```
<rpc>
  <get-multicast-pim-to-igmp-proxy-information>
    <logical-system>logical-system</logical-system>
  </get-multicast-pim-to-igmp-proxy-information>
</rpc>
```

Description Show pim-to-igmp-proxy information.

Contents <logical-system>—Name of logical system, or 'all'.

<get-multicast-pim-to-mld-proxy-information>

Usage

```
<rpc>
  <get-multicast-pim-to-mld-proxy-information>
    <logical-system>logical-system</logical-system>
  </get-multicast-pim-to-mld-proxy-information>
</rpc>
```

Description Show pim-to-mld-proxy information.

Contents <logical-system>—Name of logical system, or 'all'.

<get-multicast-route-information>

Usage

```
<rpc>
  <get-multicast-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <all/>
    <active/>
    <inactive/>
    <brief/>
    <detail/>
    <extensive/>
    <inet/>
    <inet6/>
    <group>group</group>
    <source-prefix>source-prefix</source-prefix>
    <regexp>regexp</regexp>
  </get-multicast-route-information>
</rpc>
```

Description Show the multicast routing table.

Contents <active>—Display active route entries.

<all>—Display all route entries.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<group>—IP address and optional prefix length of group.

<inactive>—Display inactive route entries.

<inet>—Display IPv4 information.

<inet6>—Display IPv6 information.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<regexp>—Regular expression for session to match.

<source-prefix>—IP address and optional prefix length of source for routes.

<get-multicast-rpf-information>

Usage

```
<rpc>
  <get-multicast-rpf-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <summary/>
    <prefix>prefix</prefix>
    <inet/>
    <inet6/>
  </get-multicast-rpf-information>
</rpc>
```

Description Show reverse-path forwarding (RPF) source network information.

Contents <inet>—Display RPF information for IPv4.

<inet6>—Display RPF information for IPv6.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<prefix>—IP address and optional prefix length of host.

<summary>—Display summary output.

<get-multicast-scope-information>

Usage

```
<rpc>
  <get-multicast-scope-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <inet/>
    <inet6/>
  </get-multicast-scope-information>
</rpc>
```

Description Show administratively scoped multicast information.

Contents <inet>—Display IPv4 information.

<inet6>—Display IPv6 information.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-multicast-sessions-information>

Usage

```
<rpc>
  <get-multicast-sessions-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <regexp>regexp</regexp>
  </get-multicast-sessions-information>
</rpc>
```

Description Show announced multicast sessions.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<logical-system>—Name of logical system, or 'all'.

<regexp>—Regular expression for sessions to match.

<get-multicast-snooping-next-hops-information>

Usage

```
<rpc>
  <get-multicast-snooping-next-hops-information>
    <brief/>
    <detail/>
    <identifier>identifier</identifier>
  </get-multicast-snooping-next-hops-information>
</rpc>
```

Description Show the multicast next-hop snooping table.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<identifier>—ID of next hop.

<get-multicast-snooping-route-information>

Usage

```
<rpc>
  <get-multicast-snooping-route-information>
    <all/>
    <active/>
    <inactive/>
    <brief/>
    <detail/>
    <extensive/>
    <vlan-id>vlan-id</vlan-id>
    <mesh-group>mesh-group</mesh-group>
    <group>group</group>
    <source-prefix>source-prefix</source-prefix>
    <regexp>regexp</regexp>
    <bridge-domain>bridge-domain</bridge-domain>
    <instance>instance</instance>
  </get-multicast-snooping-route-information>
</rpc>
```

Description Show the multicast snooping routing table.

Contents <active>—Display active route entries.

<all>—Display all route entries.

<bridge-domain>—Name of bridge-domain.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<group>—IP address and optional prefix length of group.

<inactive>—Display inactive route entries.

<instance>—Name of routing-instance.

<mesh-group>—Name of a mesh-group.

<regexp>—Regular expression for session to match.

<source-prefix>—IP address and optional prefix length of source.

<vlan-id>—VLAN ID for a learning domain.

<get-multicast-statistics-information>

Usage

```
<rpc>
  <get-multicast-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <inet/>
    <inet6/>
  </get-multicast-statistics-information>
</rpc>
```

Description Show multicast statistics.

Contents <inet>—Display statistics for IPv4.

<inet6>—Display statistics for IPv6.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-multicast-usage-information>

Usage

```
<rpc>
  <get-multicast-usage-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <brief/>
    <detail/>
    <inet/>
    <inet6/>
  </get-multicast-usage-information>
</rpc>
```

Description Show multicast usage information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<inet>—Display IPv4 information.

<inet6>—Display IPv6 information.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-mvpn-instance-information>

Usage

```
<rpc>
  <get-mvpn-instance-information>
    <instance-name>instance-name</instance-name>
    <summary/>
    <extensive/>
  </get-mvpn-instance-information>
</rpc>
```

Description Show MVPN instance.

Contents <extensive>—Display detailed version of output.

<instance-name>—Name of MVPN instance.

<summary>—Display summary output.

<get-nai-mip-binding-information>

Usage

```
<rpc>
  <get-nai-mip-binding-information>
    <network-access-identifier>network-access-identifier</network-access-identifier>
<!-- mandatory -->
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-nai-mip-binding-information>
</rpc>
```

Description Show binding detail based on nai.

Contents <logical-system>—Name of logical system.

<network-access-identifier>—Show binding detail based on nai.

<routing-instance>—Name of routing instance.

<get-name-resolution-info>

Usage

```
<rpc>
  <get-name-resolution-info/>
</rpc>
```

Description Show hostname resolution information.

<get-operational-routing-instance-information>

Usage

```
<rpc>
  <get-operational-routing-instance-information/>
</rpc>
```

Description Show operational routing instances.

<get-ospf-database-information>

Usage

```
<rpc>
  <get-ospf-database-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <summary/>
    <router/>
    <network/>
    <netsummary/>
    <asbrsummary/>
    <external/>
    <nssa/>
    <link-local/>
    <opaque-area/>
    <area>area</area>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router-choice</advertising-router>
    <instance>instance</instance>
  </get-ospf-database-information>
</rpc>
```

Description Show OSPF link-state database.

Contents <advertising-router>—Router ID of advertising router.

- router-id—Router ID of advertising router.
- self—Router ID of this router.

<area>—OSPF area ID.

<asbrsummary>—Summary AS boundary router link-state advertisements.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<external>—External link-state advertisements.

<instance>—Name of OSPF instance.

<link-local>—Link local link-state advertisements.

<logical-system>—Name of logical system, or 'all'.

<lsa-id>—Link-state advertisement ID.

<netsummary>—Summary network link-state advertisements.

<network>—Network link-state advertisements.

<nssa>—Not-so-stubby area link-state advertisements.

<opaque-area>—Opaque area-scope link-state advertisements.

<router>—Router link-state advertisements.

<summary>—Display summary output.

<get-ospf-interface-information>

Usage

```
<rpc>
  <get-ospf-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <interface-name>interface-name</interface-name>
    <area>area</area>
    <instance>instance</instance>
  </get-ospf-interface-information>
</rpc>
```

Description Show OSPF interface status information.

Contents <area>—OSPF area ID.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of OSPF instance.

<interface-name>—Name of logical interface.

<logical-system>—Name of logical system, or 'all'.

<get-ospf-io-statistics-information>

Usage

```
<rpc>
  <get-ospf-io-statistics-information>
    <logical-system>logical-system</logical-system>
  </get-ospf-io-statistics-information>
</rpc>
```

Description Show OSPF I/O statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<get-ospf-log-information>

Usage

```
<rpc>
  <get-ospf-log-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <topology>topology-choice</topology>
  </get-ospf-log-information>
</rpc>
```

Description Show shortest-path-first calculations from OSPF log.

Contents <instance>—Name of OSPF instance.

<logical-system>—Name of logical system, or 'all'.

<topology>—Name of topology.

- default—Default topology.
- ipv4-multicast—IPv4 multicast topology.
- name—Topology name.

<get-ospf-neighbor-information>

Usage

```
<rpc>
  <get-ospf-neighbor-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <interface>interface</interface>
    <area>area</area>
    <neighbor>neighbor</neighbor>
    <instance>instance-choice</instance>
  </get-ospf-neighbor-information>
</rpc>
```

Description Show OSPF neighbor status information.

Contents <area>—OSPF area ID.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of OSPF instance.

- all—Show all instances.
- instance-name—Name of OSPF instance.

<interface>—Name of logical interface.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—IP address or ID of neighbor.

<get-ospf-overview-information>

Usage

```
<rpc>
  <get-ospf-overview-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <extensive/>
    <instance>instance</instance>
  </get-ospf-overview-information>
</rpc>
```

Description Show overview of OSPF information.

Contents <brief>—Display brief output (default).

<extensive>—Display extensive output.

<instance>—Name of OSPF instance.

<logical-system>—Name of logical system, or 'all'.

<get-ospf-route-information>

Usage

```
<rpc>
  <get-ospf-route-information>
    <logical-system>logical-system</logical-system>
    <detail/>
    <intra/>
    <inter/>
    <abr/>
    <asbr/>
    <extern/>
    <instance>instance</instance>
    <topology>topology-choice</topology>
  </get-ospf-route-information>
</rpc>
```

Description Show OSPF routing table.

Contents <abr>—Display OSPF routes to area border routers.

<asbr>—Display OSPF routes to AS border routers.

<detail>—Display detailed output.

<extern>—Display external OSPF routes.

<instance>—Name of OSPF instance.

<inter>—Display interarea OSPF routes.

<intra>—Display intraarea OSPF routes.

<logical-system>—Name of logical system, or 'all'.

<topology>—Name of topology.

- default—Default topology.
- ipv4-multicast—IPv4 multicast topology.
- name—Topology name.

<get-ospf-statistics-information>

Usage

```
<rpc>
  <get-ospf-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-ospf-statistics-information>
</rpc>
```

Description Show OSPF statistics.

Contents <instance>—Name of OSPF instance.

<logical-system>—Name of logical system, or 'all'.

<get-ospf3-database-information>

Usage

```
<rpc>
  <get-ospf3-database-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <summary/>
    <router/>
    <network/>
    <inter-area-prefix/>
    <inter-area-router/>
    <external/>
    <nssa/>
    <link/>
    <link-local/>
    <intra-area-prefix/>
    <area>area</area>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router-choice</advertising-router>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-database-information>
</rpc>
```

Description Show OSPFv3 link-state database.

Contents <advertising-router>—Router ID of advertising router.

- router-id—Router ID of advertising router.
- self—Router ID of this router.

<area>—Area ID of OSPFv3 area.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<external>—External LSAs.

<instance>—Name of OSPFv3 instance.

<inter-area-prefix>—Inter-area-prefix LSAs.

<inter-area-router>—Inter-area-router LSAs.

<intra-area-prefix>—Intra-area-prefix LSAs.

<link>—Link LSAs.

<link-local>—Link-local LSAs.

<logical-system>—Name of logical system, or 'all'.

<lsa-id>—ID of link-state advertisement.

<network>—Network LSAs.

<nssa>—NSSA LSAs.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<router>—Router LSAs.

<summary>—Display summary output.

<get-ospf3-interface-information>

Usage

```
<rpc>
  <get-ospf3-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <interface-name>interface-name</interface-name>
    <area>area</area>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-interface-information>
</rpc>
```

Description Show OSPFv3 interface status.

Contents <area>—OSPF area ID.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of OSPFv3 instance.

<interface-name>—Name of logical interface.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<get-ospf3-io-statistics-information>

Usage

```
<rpc>
  <get-ospf3-io-statistics-information>
    <logical-system>logical-system</logical-system>
  </get-ospf3-io-statistics-information>
</rpc>
```

Description Show OSPFv3 I/O statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<get-ospf3-log-information>

Usage

```
<rpc>
  <get-ospf3-log-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-log-information>
</rpc>
```

Description Show OSPFv3 SPF log.

Contents <instance>—Name of OSPFv3 instance.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<get-ospf3-neighbor-information>

Usage

```
<rpc>
  <get-ospf3-neighbor-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <interface>interface</interface>
    <area>area</area>
    <neighbor>neighbor</neighbor>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-neighbor-information>
</rpc>
```

Description Show OSPFv3 neighbor status.

Contents <area>—OSPF area ID.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of OSPFv3 instance.

<interface>—Name of logical interface.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—IP address or ID of neighbor.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<get-ospf3-overview-information>

Usage

```
<rpc>
  <get-ospf3-overview-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <extensive/>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-overview-information>
</rpc>
```

Description Show overview of OSPFv3 information.

Contents <brief>—Display brief output (default).

<extensive>—Display extensive output.

<instance>—Name of OSPFv3 instance.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<get-ospf3-route-information>

Usage

```
<rpc>
  <get-ospf3-route-information>
    <logical-system>logical-system</logical-system>
    <detail/>
    <intra/>
    <inter/>
    <transit/>
    <abr/>
    <asbr/>
    <extern/>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-route-information>
</rpc>
```

Description Show the OSPFv3 routing table.

Contents <abr>—Display OSPFv3 routes to area border routers.

<asbr>—Display OSPFv3 routes to AS border routers.

<detail>—Show detailed output.

<extern>—Display external OSPFv3 routes.

<instance>—Name of OSPFv3 instance.

<inter>—Display interarea OSPFv3 routes.

<intra>—Display intraarea OSPFv3 routes.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<transit>—Display OSPFv3 routes to pseudonodes.

<get-ospf3-statistics-information>

Usage

```
<rpc>
  <get-ospf3-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <realm>realm-choice</realm>
  </get-ospf3-statistics-information>
</rpc>
```

Description Show OSPFv3 statistics.

Contents <instance>—Name of OSPFv3 instance.

<logical-system>—Name of logical system, or 'all'.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.
- ipv4-unicast—IPv4 unicast realm.
- ipv6-multicast—IPv6 multicast realm.

<get-package-backup-information>

Usage

```
<rpc>
  <get-package-backup-information/>
</rpc>
```

Description Show status of old system software packages.

<get-packet-distribution-information>

Usage

```
<rpc>
  <get-packet-distribution-information>
    <packet-size-distribution-information>packet-size-distribution-information
                </packet-size-distribution-information>
  </get-packet-distribution-information>
</rpc>
```

Description Show packet size distribution.

Contents <packet-size-distribution-information>—Name of service, wildcard, or 'all'.

<get-passive-monitoring-error-information>

Usage

```
<rpc>
  <get-passive-monitoring-error-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </get-passive-monitoring-error-information>
</rpc>
```

Description Show error statistics.

Contents <interface-name>—Name of monitoring interface, wildcard, or 'all'.

<get-passive-monitoring-flow-information>

Usage

```
<rpc>
  <get-passive-monitoring-flow-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </get-passive-monitoring-flow-information>
</rpc>
```

Description Show flow statistics.

Contents <interface-name>—Name of monitoring interface, wildcard, or 'all'.

<get-passive-monitoring-information>

Usage

```
<rpc>
  <get-passive-monitoring-information/>
</rpc>
```

Description Show information about passive monitoring.

<get-passive-monitoring-memory-information>

Usage

```
<rpc>
  <get-passive-monitoring-memory-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </get-passive-monitoring-memory-information>
</rpc>
```

Description Show memory utilization.

Contents <interface-name>—Name of monitoring interface, wildcard, or 'all'.

<get-passive-monitoring-status-information>

Usage
```
<rpc>
  <get-passive-monitoring-status-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </get-passive-monitoring-status-information>
</rpc>
```

Description Show status information.

Contents <interface-name>—Name of monitoring interface, wildcard, or 'all'.

<get-passive-monitoring-usage-information>

Usage
```
<rpc>
  <get-passive-monitoring-usage-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </get-passive-monitoring-usage-information>
</rpc>
```

Description Show CPU utilization.

Contents <interface-name>—Name of monitoring interface, wildcard, or 'all'.

<get-pdp-diagnostics-per-apn>

Usage
```
<rpc>
  <get-pdp-diagnostics-per-apn>
    <apn>apn</apn>     <!-- mandatory -->
  </get-pdp-diagnostics-per-apn>
</rpc>
```

Description Show PDP context diagnostics information.

Contents <apn>—APN for which to show PDP Contexts.

<get-pfe-information>

Usage
```
<rpc>
  <get-pfe-information/>
</rpc>
```

Description Show list of Packet Forwarding Engine components.

<get-pfe-statistics>

Usage

```
<rpc>
  <get-pfe-statistics>
    <sfm>sfm</sfm>
    <feb>feb</feb>
    <lcc>lcc</lcc>
    <fpc>fpc</fpc>
  </get-pfe-statistics>
</rpc>
```

Description Show Packet Forwarding Engine traffic statistics.

Contents <feb>—Slot number of FEB for which to show traffic statistics.

<fpc>—Slot number of FPC for which to show traffic statistics.

<lcc>—Slot number of LCC that houses FPC.

<sfm>—Slot number of SFM for which to show traffic statistics.

<get-pgcpd-active-configuration>

Usage

```
<rpc>
  <get-pgcpd-active-configuration/>
</rpc>
```

Description Show pgcpd active-configuration.

<get-pgm-nak>

Usage

```
<rpc>
  <get-pgm-nak/>
</rpc>
```

Description Show PGM negative acknowledgments.

<get-pgm-source-path-messages>

Usage

```
<rpc>
  <get-pgm-source-path-messages/>
</rpc>
```

Description Show PGM source path messages.

<get-pgm-statistics>

Usage
```
<rpc>
  <get-pgm-statistics/>
</rpc>
```

Description Show PGM packet statistics.

<get-pic-detail>

Usage
```
<rpc>
  <get-pic-detail>
    <fpc-slot>fpc-slot</fpc-slot>     <!-- mandatory -->
    <pic-slot>pic-slot</pic-slot>     <!-- mandatory -->
  </get-pic-detail>
</rpc>
```

Description Show Physical Interface Card state, type, and uptime.

Contents <fpc-slot>—Slot number of FPC that houses PIC.

<pic-slot>—PIC slot number.

<get-pic-information>

Usage
```
<rpc>
  <get-pic-information>
    <slot>slot</slot>
  </get-pic-information>
</rpc>
```

Description Show Physical Interface Cards installed in FPC.

Contents <slot>—FPC slot number.

<get-pim-bootstrap-information>

Usage
```
<rpc>
  <get-pim-bootstrap-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-pim-bootstrap-information>
</rpc>
```

Description Show PIM bootstrap routers.

Contents <instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-pim-interfaces-information>

Usage

```
<rpc>
  <get-pim-interfaces-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <interface-name>interface-name</interface-name>
    <inet/>
    <inet6/>
  </get-pim-interfaces-information>
</rpc>
```

Description Show PIM interfaces.

Contents <inet>—Display IPv4 interfaces.

<inet6>—Display IPv6 interfaces.

<instance>—Name of instance.

<interface-name>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-pim-join-information>

Usage

```
<rpc>
  <get-pim-join-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <summary/>
    <brief/>
    <detail/>
    <extensive/>
    <range>range</range>
    <inet/>
    <inet6/>
  </get-pim-join-information>
</rpc>
```

Description Show PIM join/prune state.

Contents

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<inet>—Display IPv4 join/prune state.

<inet6>—Display IPv6 join/prune state.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<range>—IP address and optional prefix length of group.

<summary>—Display summary output.

<get-pim-mdt-information>

Usage

```
<rpc>
  <get-pim-mdt-information>
    <logical-system>logical-system</logical-system>
    <outgoing/>
    <incoming/>
    <brief/>
    <detail/>
    <extensive/>
    <range>range</range>
    <instance>instance</instance>     <!-- mandatory -->
  </get-pim-mdt-information>
</rpc>
```

Description Show state of PIM multicast data tunnels.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<incoming>—Display incoming multicast data tunnels.

<instance>—Name of PIM instance.

<logical-system>—Name of logical system, or 'all'.

<outgoing>—Display outgoing multicast data tunnels.

<range>—IP address and optional prefix length of group.

<get-pim-mvpn-information>

Usage

```
<rpc>
  <get-pim-mvpn-information>
    <logical-system>logical-system</logical-system>
  </get-pim-mvpn-information>
</rpc>
```

Description Show PIM MVPN instances.

Contents <logical-system>—Name of logical system, or 'all'.

<get-pim-neighbors-information>

Usage

```
<rpc>
  <get-pim-neighbors-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <brief/>
    <detail/>
    <inet/>
    <inet6/>
  </get-pim-neighbors-information>
</rpc>
```

Description Show PIM neighbors.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<inet>—Display IPv4 neighbors.

<inet6>—Display IPv6 neighbors.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-pim-rps-information>

Usage

```
<rpc>
  <get-pim-rps-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <brief/>
    <detail/>
    <extensive/>
    <group-address>group-address</group-address>
    <inet/>
    <inet6/>
  </get-pim-rps-information>
</rpc>
```

Description Show PIM rendezvous points.

Contents

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<group-address>—IP address of group.

<inet>—Display IPv4 rendezvous points.

<inet6>—Display IPv6 rendezvous points.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-pim-source-information>

Usage

```
<rpc>
  <get-pim-source-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <brief/>
    <detail/>
    <source>source</source>
    <inet/>
    <inet6/>
  </get-pim-source-information>
</rpc>
```

Description Show the PIM source RPF state.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<inet>—Display IPv4 PIM source RPF state.

<inet6>—Display IPv6 PIM source RPF state.

<instance>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<source>—IP address and optional prefix length of source RPFs.

<get-pim-statistics-information>

Usage

```
<rpc>
  <get-pim-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <interface>interface</interface>
    <inet/>
    <inet6/>
  </get-pim-statistics-information>
</rpc>
```

Description Show PIM statistics.

Contents <inet>—Display IPv4 PIM statistics.

<inet6>—Display IPv6 PIM statistics.

<instance>—Name of instance.

<interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<get-power-management>

Usage

```
<rpc>
  <get-power-management/>
</rpc>
```

Description Show power ratings for the router.

<get-ppp-address-pool-inforamation>

Usage

```
<rpc>
  <get-ppp-address-pool-inforamation>
    <detail/>
    <pool-name>pool-name</pool-name>     <!-- mandatory -->
  </get-ppp-address-pool-inforamation>
</rpc>
```

Description Show PPP address pool information.

Contents <detail>—Display detailed information.

<pool-name>—Address pool name.

<get-ppp-interface-information>

Usage

```
<rpc>
  <get-ppp-interface-information>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
    <extensive/>
    <terse/>
  </get-ppp-interface-information>
</rpc>
```

Description Show PPP interface information.

Contents <extensive>—Display detailed output.

<interface-name>—Interface name.

<terse>—Display terse output.

<get-ppp-statistics-information>

Usage
```
<rpc>
  <get-ppp-statistics-information>
    <detail/>
    <memory/>
  </get-ppp-statistics-information>
</rpc>
```

Description Show PPP statistics.

Contents <detail>—Display detailed statistics.

<memory>—Display PPP process memory statistics.

<get-ppp-summary-information>

Usage
```
<rpc>
  <get-ppp-summary-information/>
</rpc>
```

Description Show PPP summary information.

<get-pppoe-interface-information>

Usage
```
<rpc>
  <get-pppoe-interface-information>
    <brief/>
    <detail/>
    <extensive/>
    <interface-name>interface-name</interface-name>
  </get-pppoe-interface-information>
</rpc>
```

Description Show interface information.

Contents <brief>—Show brief output.

<detail>—Show detailed output.

<extensive>—Show extensive output.

<interface-name>—Name of PPPoE logical interface.

<get-pppoe-statistics-information>

Usage
```
<rpc>
  <get-pppoe-statistics-information/>
</rpc>
```

Description Show sum of statistics of all interfaces.

<get-pppoe-version>

Usage
```
<rpc>
  <get-pppoe-version/>
</rpc>
```

Description Show version.

<get-probe-results>

Usage
```
<rpc>
  <get-probe-results>
    <owner>owner</owner>
    <test>test</test>
  </get-probe-results>
</rpc>
```

Description Show probe results.

Contents <owner>—Name of owner.

<test>—Name of test.

<get-process-health-information>

Usage
```
<rpc>
  <get-process-health-information>
    <process-name>process-name</process-name>
    <pid>pid</pid>
  </get-process-health-information>
</rpc>
```

Description Show process health information.

Contents <pid>—Process identifier.

<process-name>—Process name.

<get-psd-information>

Usage
```
<rpc>
  <get-psd-information/>
</rpc>
```

Description Show Protected System Domain (PSD) status.

<get-radius-profile-access-test-result>

Usage

```
<rpc>
  <get-radius-profile-access-test-result>
    <profile-name>profile-name</profile-name>     <!-- mandatory -->
    <user>user</user>     <!-- mandatory -->
    <password>password</password>     <!-- mandatory -->
    <get-radius-profile-access-test-detail-result/>
  </get-radius-profile-access-test-result>
</rpc>
```

Description Test user access to an access profile.

Contents <get-radius-profile-access-test-detail-result>—Show radius attributes returned by the server.

<password>—Password for the user.

<profile-name>—Access profile name.

<user>—User name to be authenticated to the RADIUS server.

<get-radius-server-access-test-result>

Usage

```
<rpc>
  <get-radius-server-access-test-result>
    <address>address</address>     <!-- mandatory -->
    <authentication-port>authentication-port</authentication-port>
    <secret>secret</secret>     <!-- mandatory -->
    <user>user</user>     <!-- mandatory -->
    <password>password</password>     <!-- mandatory -->
    <timeout>seconds</timeout>
    <retry>retry</retry>
    <source-address>source-address</source-address>
  </get-radius-server-access-test-result>
</rpc>
```

Description Test user access to a radius server.

Contents <address>—RADIUS server address.

<authentication-port>—RADIUS server authentication port number.

<password>—Password for the user.

<retry>—Retry attempts.

<secret>—Shared secret with the RADIUS server.

<source-address>—Use specified address as source address.

<timeout>—Request timeout period.

<user>—User name to be authenticated to the RADIUS server.

<get-rescue-information>

Usage

```
<rpc>
  <get-rescue-information>
    <format>format-choice</format>
  </get-rescue-information>
</rpc>
```

Description Show rescue configuration.

Contents <format>—Output format of configuration (XML or text).

- text—Output text configuration.
- xml—Output XML configuration.

<get-rip-general-statistics-information>

Usage

```
<rpc>
  <get-rip-general-statistics-information>
    <logical-system>logical-system</logical-system>
  </get-rip-general-statistics-information>
</rpc>
```

Description Show RIP general statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<get-rip-neighbor-information>

Usage

```
<rpc>
  <get-rip-neighbor-information>
    <logical-system>logical-system</logical-system>
    <neighbor-name>neighbor-name</neighbor-name>
    <instance>instance-choice</instance>
  </get-rip-neighbor-information>
</rpc>
```

Description Show RIP interfaces.

Contents <instance>—Name of RIP instance.

- all—Show all instances.
- instance-name—Name of RIP instance.

<logical-system>—Name of logical system, or 'all'.

<neighbor-name>—Name of RIP neighbor.

<get-rip-statistics-information>

Usage

```
<rpc>
  <get-rip-statistics-information>
    <logical-system>logical-system</logical-system>
    <neighbor-name>neighbor-name</neighbor-name>
    <instance>instance-choice</instance>
  </get-rip-statistics-information>
</rpc>
```

Description Show RIP statistics.

Contents <instance>—Name of RIP instance.

- all—Show all instances.
- instance-name—Name of RIP instance.

<logical-system>—Name of logical system, or 'all'.

<neighbor-name>—Name of RIP neighbor.

<get-rmon-alarm-information>

Usage

```
<rpc>
  <get-rmon-alarm-information>
    <brief/>
    <detail/>
  </get-rmon-alarm-information>
</rpc>
```

Description Show RMON alarms.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<get-rmon-event-information>

Usage

```
<rpc>
  <get-rmon-event-information>
    <brief/>
    <detail/>
  </get-rmon-event-information>
</rpc>
```

Description Show RMON events.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<get-rmon-history-information>

Usage

```
<rpc>
  <get-rmon-history-information>
    <index>index</index>
    <sample-index>sample-index</sample-index>
  </get-rmon-history-information>
</rpc>
```

Description Show RMON history.

Contents <index>—No documentation is available yet.

<sample-index>—No documentation is available yet.

<get-rmon-information>

Usage

```
<rpc>
  <get-rmon-information/>
</rpc>
```

Description Show remote monitoring information.

<get-rmon-log-information>

Usage

```
<rpc>
  <get-rmon-log-information/>
</rpc>
```

Description Show rmon monitoring logs.

<get-rollback-information>

Usage

```
<rpc>
  <get-rollback-information>
    <rollback>rollback</rollback>     <!-- mandatory -->
    <compare>compare</compare>
    <format>format-choice</format>
  </get-rollback-information>
</rpc>
```

Description Show rolled back configuration.

Contents <compare>—Rollback number to compare.

<format>—Output format of configuration (XML or text).

- text—Output text configuration.
- xml—Output XML configuration.

<rollback>—Rollback number to display.

<get-route-engine-information>

Usage

```
<rpc>
  <get-route-engine-information>
    <slot>slot</slot>
  </get-route-engine-information>
</rpc>
```

Description Show Routing Engine status.

Contents <slot>—Routing Engine slot number.

<get-route-information>

Usage

```
<rpc>
  <get-route-information>
    <logical-system>logical-system</logical-system>
    <destination>destination</destination>
    <all/>
    <terse/>
    <brief/>
    <detail/>
    <extensive/>
    <best/>
    <exact/>
    <range/>
    <table>table</table>
    <label>label</label>
    <ccc>ccc</ccc>
    <inactive-prefix/>
    <inactive-path/>
    <active-path/>
    <private/>
    <damping>damping-choice</damping>
    <next-hop>next-hop</next-hop>
    <source-gateway>source-gateway</source-gateway>
    <protocol>protocol-choice</protocol>
    <advertising-protocol-name>advertising-protocol-name-choice
                </advertising-protocol-name>
    <neighbor>neighbor</neighbor>
    <receive-protocol-name>receive-protocol-name-choice</receive-protocol-name>
    <peer>peer</peer>
    <aspath-regex>aspath-regex</aspath-regex>
    <community>...</community>
    <no-community/>
    <community-name>community-name</community-name>
    <label-switched-path>label-switched-path</label-switched-path>
    <hidden/>
  </get-route-information>
</rpc>
```

Description Show routing table information.

Contents <active-path>—Show active paths.

<advertising-protocol-name>—Name of dynamic routing protocol.

- bgp—Border Gateway Protocol.
- dvmrp—Distance Vector Multicast Routing Protocol.
- msdp—Multicast Source Discovery Protocol.
- pim—Protocol Independent Multicast.
- rip—Routing Information Protocol.

- ripng—Routing Information Protocol for IPv6.

<all>—Show all entries, including hidden entries.

<aspath-regex>—BGP AS path regular expression for entries to match.

<best>—Show longest matching route.

<brief>—Display brief output.

<ccc>—Name of entry in MPLS table with a circuit cross-connect interface.

<community>—Identifier for community (can include wildcards).

<community-name>—Name of configured community policy to match.

<damping>—Show entries subjected to particular kind of route damping.

- decayed—Entries that are decayed but not suppressed.
- history—Entries that are withdrawn but have history.
- suppressed—Entries suppressed due to route damping.

<destination>—IP address and optional prefix length of destination.

<detail>—Display detailed output.

<exact>—Show routes that match exactly.

<extensive>—Display extensive output.

<hidden>—Show hidden entries.

<inactive-path>—Show inactive paths.

<inactive-prefix>—Show inactive route destinations.

<label>—Label of entry in MPLS routing table.

<label-switched-path>—Name of LSP tunnel associated with entries.

<logical-system>—Name of logical system, or 'all'.

<neighbor>—IP address of neighbor (local for RIP and RIPng).

<next-hop>—IP address of next hop that is destination for entries.

<no-community>—Show entries with no associated community.

<peer>—IP address of neighbor.

<private>—Show private table routes.

<protocol>—Name of protocol that is source for entries.

- access—Access route.
- access-internal—Access-internal route.
- aggregate—Locally generated aggregate route.
- bgp—Border Gateway Protocol.
- ccc—Circuit cross-connect.
- direct—Directly connected routes.
- dvmrp—Distance Vector Multicast Routing Protocol.
- esis—End System-to-Intermediate System.
- isis—Intermediate System-to-Intermediate System.
- l2circuit—Layer 2 circuit.
- l2vpn—Layer 2 virtual private network.
- ldp—Label Distribution Protocol.
- local—Local system addresses.
- mpls—Multiprotocol Label Switching.
- msdp—Multicast Source Discovery Protocol.
- ospf—Open Shortest Path First.
- ospf2—Open Shortest Path First Version 2.
- ospf3—Open Shortest Path First Version 3.
- pim—Protocol Independent Multicast.
- rip—Routing Information Protocol.
- ripng—Routing Information Protocol for IPv6.
- rsvp—Resource Reservation Protocol.
- rtarget—Local route target VPN membership.
- static—Statically defined prefixes.
- tunnel—Dynamic tunnel.
- vpn—Layer 3 virtual private network.

<range>—Show all entries in prefix range.

<receive-protocol-name>—Name of dynamic routing protocol.

- bgp—Border Gateway Protocol.
- dvmrp—Distance Vector Multicast Routing Protocol.
- msdp—Multicast Source Discovery Protocol.
- pim—Protocol Independent Multicast.
- rip—Routing Information Protocol.
- ripng—Routing Information Protocol for IPv6.

<source-gateway>—IP address of source router for entries.

<table>—Name of routing table.

<terse>—Display terse output.

<get-route-summary-information>

Usage

```
<rpc>
  <get-route-summary-information>
    <logical-system>logical-system</logical-system>
  </get-route-summary-information>
</rpc>
```

Description Show routing table statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<get-rsvp-interface-information>

Usage

```
<rpc>
  <get-rsvp-interface-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <link-management/>
    <interface-name>interface-name</interface-name>
  </get-rsvp-interface-information>
</rpc>
```

Description Show RSVP interfaces.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface-name>—Name of logical interface.

<link-management>—Display RSVP interfaces created by LMP.

<logical-system>—Name of logical system, or 'all'.

<get-rsvp-neighbor-information>

Usage

```
<rpc>
  <get-rsvp-neighbor-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
  </get-rsvp-neighbor-information>
</rpc>
```

Description Show RSVP neighbors.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<get-rsvp-session-information>

Usage

```
<rpc>
  <get-rsvp-session-information>
    <logical-system>logical-system</logical-system>
    <ingress/>
    <egress/>
    <transit/>
    <lsp/>
    <nolsp/>
    <up/>
    <down/>
    <unidirectional/>
    <bidirectional/>
    <p2mp/>
    <terse/>
    <brief/>
    <detail/>
    <extensive/>
    <statistics/>
    <bypass/>
    <session-name>session-name</session-name>
    <interface>interface</interface>
    <te-link>te-link</te-link>
  </get-rsvp-session-information>
</rpc>
```

Description Show active RSVP sessions.

Contents

<bidirectional>—Display bidirectional RSVP sessions.

<brief>—Display brief output (default).

<bypass>—Display RSVP sessions used to protect LSPs.

<detail>—Display detailed output.

<down>—Display inactive LSPs.

<egress>—Display RSVP sessions ending at this router.

<extensive>—Display extensive output.

<ingress>—Display RSVP sessions originating at this router.

<interface>—Name of interface.

<logical-system>—Name of logical system, or 'all'.

<lsp>—Display RSVP sessions used to set up LSPs.

<nolsp>—Display RSVP sessions not used to set up LSPs.

<p2mp>—Display point-to-multipoint RSVP sessions.

<session-name>—Name of RSVP session.

<statistics>—Display packet statistics.

<te-link>—Name of traffic engineering link.

<terse>—Display terse output.

<transit>—Display RSVP sessions transiting this router.

<unidirectional>—Display unidirectional RSVP sessions.

<up>—Display active LSPs.

<get-rsvp-statistics-information>

Usage

```
<rpc>
  <get-rsvp-statistics-information>
    <logical-system>logical-system</logical-system>
  </get-rsvp-statistics-information>
</rpc>
```

Description Show RSVP statistics.

Contents <logical-system>—Name of logical system, or 'all'.

<get-rsvp-version-information>

Usage

```
<rpc>
  <get-rsvp-version-information>
    <logical-system>logical-system</logical-system>
  </get-rsvp-version-information>
</rpc>
```

Description Show RSVP version.

Contents <logical-system>—Name of logical system, or 'all'.

<get-rtexport-instance-information>

Usage

```
<rpc>
  <get-rtexport-instance-information>
    <brief/>
    <detail/>
    <logical-system>logical-system</logical-system>
    <instance-name>instance-name</instance-name>
  </get-rtexport-instance-information>
</rpc>
```

Description Show instance configuration and runtime information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<instance-name>—Name of instance.

<logical-system>—Name of logical system, or 'all'.

<get-rtexport-table-information>

Usage

```
<rpc>
  <get-rtexport-table-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <table-name>table-name</table-name>
  </get-rtexport-table-information>
</rpc>
```

Description Show instance export information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<table-name>—Name of table.

<get-rtexport-target-information>

Usage

```
<rpc>
  <get-rtexport-target-information>
    <brief/>
    <detail/>
    <logical-system>logical-system</logical-system>
    <community>...</community>
  </get-rtexport-target-information>
</rpc>
```

Description Show VPN routing and forwarding route target export information.

Contents <brief>—Display brief output (default).

<community>—Community to match (can include wildcards).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<get-rtflow-dep-information>

Usage

```
<rpc>
  <get-rtflow-dep-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <table>table</table>
    <destination>destination</destination>
  </get-rtflow-dep-information>
</rpc>
```

Description Show flow route validation tables.

Contents <brief>—Display brief output (default).

<destination>—IP address and optional prefix length of destination.

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<table>—Name of unicast routing table.

<get-sap-listen-information>

Usage

```
<rpc>
  <get-sap-listen-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
  </get-sap-listen-information>
</rpc>
```

Description Show addresses to listen for session announcements.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<get-scb-information>

Usage

```
<rpc>
  <get-scb-information/>
</rpc>
```

Description Show System Control Board status.

<get-security-associations-information>

Usage

```
<rpc>
  <get-security-associations-information>
    <brief/>
    <detail/>
    <sa-name>sa-name</sa-name>
  </get-security-associations-information>
</rpc>
```

Description Show IPSec security association information.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<sa-name>—Name of security association.

<get-service-accounting-aggregation-as-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-as-information>
    <as-information>as-information</as-information>
    <limit>limit</limit>
    <order>order-choice</order>
    <extensive/>
    <detail/>
    <terse/>
    <source-as>source-as</source-as>
    <destination-as>destination-as</destination-as>
    <input-snmp-interface-index>input-snmp-interface-index
                </input-snmp-interface-index>
    <output-snmp-interface-index>output-snmp-interface-index
                </output-snmp-interface-index>
  </get-service-accounting-aggregation-as-information>
</rpc>
```

Description Show aggregation type AS.

Contents <as-information>—Name of service, wildcard, or 'all'.

<destination-as>—Filter term destination AS.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<input-snmp-interface-index>—Filter term input SNMP interface index.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<output-snmp-interface-index>—Filter term output SNMP interface index.

<source-as>—Filter term source-as.

<terse>—Display terse output (default).

<get-service-accounting-aggregation-destination-prefix-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-destination-prefix-information>
    <destination-prefix-information>destination-prefix-information
                </destination-prefix-information>
    <limit>limit</limit>
    <order>order-choice</order>
    <extensive/>
    <detail/>
    <terse/>
    <destination-prefix>destination-prefix</destination-prefix>
    <destination-as>destination-as</destination-as>
    <output-snmp-interface-index>output-snmp-interface-index
                </output-snmp-interface-index>
  </get-service-accounting-aggregation-destination-prefix-information>
</rpc>
```

Description Show aggregation type destination-prefix.

Contents

<destination-as>—Filter term destination-as.

<destination-prefix>—Filter term destination prefix.

<destination-prefix-information>—Name of service, wildcard, or 'all'.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<output-snmp-interface-index>—Filter term output SNMP interface index.

<terse>—Display terse output (default).

<get-service-accounting-aggregation-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-information/>
</rpc>
```

Description Show aggregation information.

<get-service-accounting-aggregation-protocol-port-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-protocol-port-information>
    <protocol-port-information>protocol-port-information
                    </protocol-port-information>
    <limit>limit</limit>
    <order>order-choice</order>
    <extensive/>
    <detail/>
    <terse/>
    <proto>proto</proto>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
  </get-service-accounting-aggregation-protocol-port-information>
</rpc>
```

Description Show aggregation type protocol-port.

Contents <destination-port>—Filter term destination port.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<proto>—Filter term protocol.

<protocol-port-information>—Name of service, wildcard, or 'all'.

<source-port>—Filter term source port.

<terse>—Display terse output (default).

<get-service-accounting-aggregation-source-destination-prefix-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-source-destination-prefix-information>
    <source-destination-prefix-information>source-destination-prefix-information
                </source-destination-prefix-information>
    <limit>limit</limit>
    <order>order-choice</order>
    <extensive/>
    <detail/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <source-as>source-as</source-as>
    <input-snmp-interface-index>input-snmp-interface-index
                </input-snmp-interface-index>
    <destination-prefix>destination-prefix</destination-prefix>
    <destination-as>destination-as</destination-as>
    <output-snmp-interface-index>output-snmp-interface-index
                </output-snmp-interface-index>
  </get-service-accounting-aggregation-source-destination-prefix-information>
</rpc>
```

Description Show aggregation type source-destination-prefix.

Contents

<destination-as>—Filter term destination-as.

<destination-prefix>—Filter term destination prefix.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<input-snmp-interface-index>—Filter term input SNMP interface index.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<output-snmp-interface-index>—Filter term output SNMP interface index.

<source-as>—Filter term source-as.

<source-destination-prefix-information>—Name of service, wildcard, or 'all'.

<source-prefix>—Filter term source prefix.

<terse>—Display terse output (default).

<get-service-accounting-aggregation-source-prefix-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-source-prefix-information>
    <source-prefix-information>source-prefix-information
                </source-prefix-information>
    <limit>limit</limit>
    <order>order-choice</order>
    <extensive/>
    <detail/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <source-as>source-as</source-as>
    <input-snmp-interface-index>input-snmp-interface-index
                </input-snmp-interface-index>
  </get-service-accounting-aggregation-source-prefix-information>
</rpc>
```

Description Show aggregation type source-prefix.

Contents

<detail>—Display detailed output.

<extensive>—Display extensive output.

<input-snmp-interface-index>—Filter term input SNMP interface index.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<source-as>—Filter term source-as.

<source-prefix>—Filter term source prefix.

<source-prefix-information>—Name of service, wildcard, or 'all'.

<terse>—Display terse output (default).

<get-service-accounting-aggregation-template-information>

Usage

```
<rpc>
  <get-service-accounting-aggregation-template-information>
    <template-name>template-name</template-name>     <!-- mandatory -->
    <extensive/>
    <detail/>
    <terse/>
  </get-service-accounting-aggregation-template-information>
</rpc>
```

Description Show aggregation type template.

Contents <detail>—Display detailed output.

<extensive>—Display extensive output.

<template-name>—Name of template.

<terse>—Display terse output (default).

<get-service-accounting-errors-information>

Usage

```
<rpc>
  <get-service-accounting-errors-information>
    <error-information>error-information</error-information>
  </get-service-accounting-errors-information>
</rpc>
```

Description Show error statistics.

Contents <error-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-flow-detail>

Usage

```
<rpc>
  <get-service-accounting-flow-detail>
    <flow-detail-information>flow-detail-information</flow-detail-information>
    <limit>limit</limit>
    <order>order-choice</order>
    <extensive/>
    <detail/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <input-snmp-interface-index>input-snmp-interface-index
                </input-snmp-interface-index>
    <output-snmp-interface-index>output-snmp-interface-index
                </output-snmp-interface-index>
    <source-as>source-as</source-as>
    <destination-as>destination-as</destination-as>
    <tos>tos</tos>
    <proto>proto</proto>
  </get-service-accounting-flow-detail>
</rpc>
```

Description Show flow detail.

Contents <destination-as>—Filter term destination AS.

<destination-port>—Filter term destination port.

<destination-prefix>—Filter term destination prefix.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<flow-detail-information>—Name of service, wildcard, or 'all'.

<input-snmp-interface-index>—Filter term input SNMP interface index.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<output-snmp-interface-index>—Filter term output SNMP interface index.

<proto>—Filter term protocol.

<source-as>—Filter term source AS.

<source-port>—Filter term source port.

<source-prefix>—Filter term source prefix.

<terse>—Display terse output (default).

<tos>—Filter term ToS.

<get-service-accounting-flow-information>

Usage
```
<rpc>
  <get-service-accounting-flow-information>
    <flow-information>flow-information</flow-information>
  </get-service-accounting-flow-information>
</rpc>
```

Description Show flow information.

Contents <flow-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-information>

Usage
```
<rpc>
  <get-service-accounting-information/>
</rpc>
```

Description Show sampled accounting service.

<get-service-accounting-memory-information>

Usage
```
<rpc>
  <get-service-accounting-memory-information>
    <memory-information>memory-information</memory-information>
  </get-service-accounting-memory-information>
</rpc>
```

Description Show memory information.

Contents <memory-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-status-information>

Usage

```
<rpc>
  <get-service-accounting-status-information>
    <status-information>status-information</status-information>
  </get-service-accounting-status-information>
</rpc>
```

Description Show service accounting parameters.

Contents <status-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-usage-information>

Usage

```
<rpc>
  <get-service-accounting-usage-information>
    <usage-information>usage-information</usage-information>
  </get-service-accounting-usage-information>
</rpc>
```

Description Show CPU usage.

Contents <usage-information>—Name of service, wildcard, or 'all'.

<get-service-border-signaling-gateway-information-by-contact>

Usage

```
<rpc>
  <get-service-border-signaling-gateway-information-by-contact>
    <gateway>gateway</gateway>      <!-- mandatory -->
    <contact>contact</contact>      <!-- mandatory -->
    <brief/>
    <summary/>
    <detail/>
  </get-service-border-signaling-gateway-information-by-contact>
</rpc>
```

Description Show border-signaling-gateway information by contact.

Contents <brief>—Display brief output (default).

<contact>—Contact.

<detail>—Display detailed output.

<gateway>—Name of border signaling gateway.

<summary>—Display summary output.

<get-service-border-signaling-gateway-information-by-request-uri>

Usage

```
<rpc>
  <get-service-border-signaling-gateway-information-by-request-uri>
    <gateway>gateway</gateway>     <!-- mandatory -->
    <uri>uri</uri>     <!-- mandatory -->
    <brief/>
    <summary/>
    <detail/>
  </get-service-border-signaling-gateway-information-by-request-uri>
</rpc>
```

Description Show border-signaling-gateway information by request uri.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<gateway>—Name of border signaling gateway.

<summary>—Display summary output.

<uri>—URI.

<get-service-border-signaling-gateway-statistics-admission-control>

Usage

```
<rpc>
  <get-service-border-signaling-gateway-statistics-admission-control>
    <gateway>gateway</gateway>     <!-- mandatory -->
  </get-service-border-signaling-gateway-statistics-admission-control>
</rpc>
```

Description Show border signaling gateway admission control profiles statistics.

Contents <gateway>—Name of border signaling gateway.

<get-service-border-signaling-gateway-statistics-calls>

Usage

```
<rpc>
  <get-service-border-signaling-gateway-statistics-calls>
    <gateway>gateway</gateway>     <!-- mandatory -->
  </get-service-border-signaling-gateway-statistics-calls>
</rpc>
```

Description Show border-signaling-gateway calls statistics.

Contents <gateway>—Name of border signaling gateway.

<get-service-border-signaling-gateway-statistics-calls-failed>

Usage

```
<rpc>
  <get-service-border-signaling-gateway-statistics-calls-failed>
    <gateway>gateway</gateway>     <!-- mandatory -->
  </get-service-border-signaling-gateway-statistics-calls-failed>
</rpc>
```

Description Show border-signaling-gateway failed calls statistics.

Contents <gateway>—Name of border signaling gateway.

<get-service-cos-diffserv-statistics>

Usage

```
<rpc>
  <get-service-cos-diffserv-statistics>
    <brief/>
    <detail/>
    <extensive/>
    <summary/>
  </get-service-cos-diffserv-statistics>
</rpc>
```

Description Show Diffserv marking statistics.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<summary>—Display summary output.

<get-service-cos-forwarding-class-statistics>

Usage

```
<rpc>
  <get-service-cos-forwarding-class-statistics>
    <brief/>
    <detail/>
    <extensive/>
    <summary/>
  </get-service-cos-forwarding-class-statistics>
</rpc>
```

Description Show forwarding Class statistics.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<summary>—Display summary output.

<get-service-cos-statistics-information>

Usage

```
<rpc>
  <get-service-cos-statistics-information>
    <brief/>
    <detail/>
    <extensive/>
    <summary/>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </get-service-cos-statistics-information>
</rpc>
```

Description Show statistics.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Name of adaptive services interface.

<service-set>—Name of service set.

<summary>—Display summary output.

<get-service-crtp-extensive-information>

Usage
```
<rpc>
  <get-service-crtp-extensive-information>
    <interface>interface</interface>
  </get-service-crtp-extensive-information>
</rpc>
```

Description Show CRTP extensive output.

Contents <interface>—Name of link services interface.

<get-service-crtp-flow-table-information>

Usage
```
<rpc>
  <get-service-crtp-flow-table-information>
    <interface>interface</interface>
  </get-service-crtp-flow-table-information>
</rpc>
```

Description Show CRTP flow table entries.

Contents <interface>—Name of link services interface.

<get-service-crtp-params-information>

Usage
```
<rpc>
  <get-service-crtp-params-information>
    <interface>interface</interface>
  </get-service-crtp-params-information>
</rpc>
```

Description Show Compressed Real-Time Protocol information.

Contents <interface>—Name of link services interface.

<get-service-deployment-service-information>

Usage
```
<rpc>
  <get-service-deployment-service-information/>
</rpc>
```

Description Show service deployment service information.

<get-service-identification-statistics-information>

Usage

```
<rpc>
  <get-service-identification-statistics-information>
    <detail/>
  </get-service-identification-statistics-information>
</rpc>
```

Description Show service identification statistics.

Contents <detail>—Display detailed statistics.

<get-service-ids-destination-table-information>

Usage

```
<rpc>
  <get-service-ids-destination-table-information>
    <destination-prefix>destination-prefix</destination-prefix>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <order>order-choice</order>
    <threshold>threshold</threshold>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
  </get-service-ids-destination-table-information>
</rpc>
```

Description Show attack destination address table.

Contents

<brief>—Display brief output (default).

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<order>—Specify table ordering criteria.

- anomalies—Order by number of anomalies (default).
- bytes—Order by bytes received.
- flows—Order by number of flows.
- packets—Order by packets received.

<service-set>—Name of service set.

<terse>—Display terse output.

<threshold>—Minimum threshold for table entries.

<get-service-ids-pair-table-information>

Usage

```
<rpc>
  <get-service-ids-pair-table-information>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <order>order-choice</order>
    <threshold>threshold</threshold>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
  </get-service-ids-pair-table-information>
</rpc>
```

Description Show attack source and destination address pair table.

Contents <brief>—Display brief output (default).

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<order>—Specify table ordering criteria.

- anomalies—Order by number of anomalies (default).
- bytes—Order by bytes received.
- flows—Order by number of flows.
- packets—Order by packets received.

<service-set>—Name of service set.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<threshold>—Minimum threshold for table entries.

<get-service-ids-source-table-information>

Usage

```
<rpc>
  <get-service-ids-source-table-information>
    <source-prefix>source-prefix</source-prefix>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <order>order-choice</order>
    <threshold>threshold</threshold>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
  </get-service-ids-source-table-information>
</rpc>
```

Description Show attack source address table.

Contents <brief>—Display brief output (default).

<extensive>—Display extensive output.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<order>—Specify table ordering criteria.

- anomalies—Order by number of anomalies (default).
- bytes—Order by bytes received.
- flows—Order by number of flows.
- packets—Order by packets received.

<service-set>—Name of service set.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<threshold>—Minimum threshold for table entries.

<get-service-msp-flow-table-information>

Usage

```
<rpc>
  <get-service-msp-flow-table-information>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <get-service-sfw-flow-count-information/>
  </get-service-msp-flow-table-information>
</rpc>
```

Description Show flow table entries.

Contents <brief>—Display brief output (default).

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<get-service-sfw-flow-count-information>—Show count of matching entries.

<interface>—Name of extension provider interface.

<limit>—Maximum number of entries to display.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.

- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<get-service-nat-ipv6-multicast-information>

Usage

```
<rpc>
  <get-service-nat-ipv6-multicast-information/>
</rpc>
```

Description Show interfaces with IPv6 multicast filter.

<get-service-nat-pool-information>

Usage

```
<rpc>
  <get-service-nat-pool-information>
    <pool-name>pool-name</pool-name>
    <brief/>
    <detail/>
  </get-service-nat-pool-information>
</rpc>
```

Description Show NAT pools information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<pool-name>—Name of pool.

<get-service-pgcp-active-configuration-gateway>

Usage

```
<rpc>
  <get-service-pgcp-active-configuration-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <master/>
    <backup/>
  </get-service-pgcp-active-configuration-gateway>
</rpc>
```

Description Show gateway active configuration.

Contents <backup>—Query the backup ms-pic.

<gateway-name>—Gateway name.

<master>—Query the master RE or ms-pic (default).

<get-service-pgcp-conversation-information>

Usage

```
<rpc>
  <get-service-pgcp-conversation-information/>
</rpc>
```

Description Show PGCP conversations.

<get-service-pgcp-conversation-information-gateway>

Usage

```
<rpc>
  <get-service-pgcp-conversation-information-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <service-set>service-set</service-set>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <source-routing-instance>source-routing-instance</source-routing-instance>
    <destination-routing-instance>destination-routing-instance
                  </destination-routing-instance>
    <protocol>protocol-choice</protocol>
    <brief/>
    <extensive/>
    <master/>
    <backup/>
  </get-service-pgcp-conversation-information-gateway>
</rpc>
```

Description Show PGCP conversations for gateway.

Contents <backup>—Query the backup ms-pic.

<brief>—Display brief output.

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<destination-routing-instance>—Destination routing-instance.

<extensive>—Display extensive output.

<gateway-name>—Gateway name.

<master>—Query the master RE or ms-pic (default).

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.

- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<source-routing-instance>—Source routing-instance.

<get-service-pgcp-flow-table-information>

Usage

```
<rpc>
  <get-service-pgcp-flow-table-information/>
</rpc>
```

Description Show PGCP flow table entries.

<get-service-pgcp-flow-table-information-gateway>

Usage

```
<rpc>
  <get-service-pgcp-flow-table-information-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <gate-id>gate-id</gate-id>
    <service-set>service-set</service-set>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <source-routing-instance>source-routing-instance</source-routing-instance>
    <destination-routing-instance>destination-routing-instance
                  </destination-routing-instance>
    <protocol>protocol-choice</protocol>
    <get-service-pgcp-flow-count-information/>
    <brief/>
    <extensive/>
    <master/>
    <backup/>
  </get-service-pgcp-flow-table-information-gateway>
</rpc>
```

Description Show packet-gateway-control-protocol information for gateway.

Contents <backup>—Query the backup ms-pic.

<brief>—Display brief output.

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<destination-routing-instance>—Destination routing-instance.

<extensive>—Display extensive output.

<gate-id>—Gate id.

<gateway-name>—Gateway name.

<get-service-pgcp-flow-count-information>—Show count of matching entries.

<master>—Query the master RE or ms-pic (default).

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.

- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<source-routing-instance>—Source routing-instance.

<get-service-pgcp-gate>

Usage

```
<rpc>
  <get-service-pgcp-gate/>
</rpc>
```

Description Show gate according to gate-id.

<get-service-pgcp-gate-gateway>

Usage

```
<rpc>
  <get-service-pgcp-gate-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <gate-id>gate-id</gate-id>     <!-- mandatory -->
    <extensive/>
    <brief/>
    <statistics/>
    <session-mirroring/>
    <master/>
    <backup/>
  </get-service-pgcp-gate-gateway>
</rpc>
```

Description Show gate for gateway.

Contents <backup>—Query the backup ms-pic.

<brief>—Display brief output (default).

<extensive>—Display extensive output.

<gate-id>—Gate id.

<gateway-name>—Gateway name.

<master>—Query the master RE or ms-pic (default).

<session-mirroring>—Display session mirroring for gate.

<statistics>—Display statistics for gate.

<get-service-pgcp-gates>

Usage

```
<rpc>
  <get-service-pgcp-gates/>
</rpc>
```

Description Show list of gates.

<get-service-pgcp-gates-gateway>

Usage

```
<rpc>
  <get-service-pgcp-gates-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <extensive/>
    <brief/>
    <count/>
    <source-routing-instance>source-routing-instance</source-routing-instance>
    <destination-routing-instance>destination-routing-instance
                    </destination-routing-instance>
    <master/>
    <backup/>
  </get-service-pgcp-gates-gateway>
</rpc>
```

Description Show all gates for gateway.

Contents

<backup>—Query the backup ms-pic.

<brief>—Display brief output (default).

<count>—Show count of matching entries.

<destination-routing-instance>—Destination routing-instance.

<extensive>—Display extensive output.

<gateway-name>—Gateway name.

<master>—Query the master RE or ms-pic (default).

<source-routing-instance>—Source routing-instance.

<get-service-pgcp-statistics>

Usage

```
<rpc>
  <get-service-pgcp-statistics/>
</rpc>
```

Description Show pgcpd statistics.

<get-service-pgcp-statistics-gateway>

Usage

```
<rpc>
  <get-service-pgcp-statistics-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <brief/>
    <extensive/>
    <master/>
    <backup/>
  </get-service-pgcp-statistics-gateway>
</rpc>
```

Description Show gateway statistics.

Contents <backup>—Query the backup ms-pic.

<brief>—Display brief output (default).

<extensive>—Display extensive output.

<gateway-name>—Gateway name.

<master>—Query the master RE or ms-pic (default).

<get-service-pgcp-terminations>

Usage

```
<rpc>
  <get-service-pgcp-terminations/>
</rpc>
```

Description Show list of terminations.

<get-service-pgcp-terminations-gateway>

Usage

```
<rpc>
  <get-service-pgcp-terminations-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <termination-prefix>termination-prefix</termination-prefix>
    <h248/>
    <brief/>
    <count/>
    <master/>
    <backup/>
  </get-service-pgcp-terminations-gateway>
</rpc>
```

Description Show list of terminations for gateway.

Contents <backup>—Query the backup ms-pic.

<brief>—Display brief output (default).

<count>—Show count of matching entries.

<gateway-name>—Gateway name.

<h248>—Display H248 output format.

<master>—Query the master RE or ms-pic (default).

<termination-prefix>—Termination-prefix to use as filter, default * (all).

<get-service-set-cpu-statistics>

Usage

```
<rpc>
  <get-service-set-cpu-statistics>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </get-service-set-cpu-statistics>
</rpc>
```

Description Show service interface CPU utilization as a percentage.

Contents <interface>—Name of adaptive services interface.

<service-set>—Name of service set.

<get-service-set-memory-statistics>

Usage
```
<rpc>
  <get-service-set-memory-statistics>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </get-service-set-memory-statistics>
</rpc>
```

Description Show service interface memory utilization.

Contents <interface>—Name of adaptive services interface.

<service-set>—Name of service set.

<get-service-set-packet-drop-statistics>

Usage
```
<rpc>
  <get-service-set-packet-drop-statistics>
    <interface>interface</interface>
  </get-service-set-packet-drop-statistics>
</rpc>
```

Description Show service set packet drop statistics.

Contents <interface>—Name of adaptive services interface.

<get-service-set-plugin-summary>

Usage
```
<rpc>
  <get-service-set-plugin-summary>
    <interface>interface</interface>
  </get-service-set-plugin-summary>
</rpc>
```

Description Show service set plugins summary.

Contents <interface>—Name of extension provider interface.

<get-service-set-summary-information>

Usage
```
<rpc>
  <get-service-set-summary-information>
    <interface>interface</interface>
  </get-service-set-summary-information>
</rpc>
```

Description Show service set summary information.

Contents <interface>—Name of adaptive services interface.

<get-service-set-tcp-mss-statistics>

Usage

```
<rpc>
  <get-service-set-tcp-mss-statistics>
    <interface>interface</interface>
  </get-service-set-tcp-mss-statistics>
</rpc>
```

Description Show service set TCP MSS statistics.

Contents <interface>—Name of adaptive services interface.

<get-service-sfw-conversation-information>

Usage

```
<rpc>
  <get-service-sfw-conversation-information>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <pgcp/>
  </get-service-sfw-conversation-information>
</rpc>
```

Description Show conversations.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.
- netbios—NetBIOS.

- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.
- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<brief>—Display brief output (default).

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<pgcp>—Use pgcp flow type as filter.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<get-service-sfw-flow-table-information>

Usage

```
<rpc>
  <get-service-sfw-flow-table-information>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <pgcp/>
    <get-service-sfw-flow-count-information/>
  </get-service-sfw-flow-table-information>
</rpc>
```

Description Show flow table entries.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.

- netbios—NetBIOS.
- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.
- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<brief>—Display brief output (default).

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<get-service-sfw-flow-count-information>—Show count of matching entries.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<pgcp>—Use pgcp flow type as filter.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<get-service-sfw-sip-call-information>

Usage

```
<rpc>
  <get-service-sfw-sip-call-information>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <get-service-sfw-sip-call-count-information/>
  </get-service-sfw-sip-call-information>
</rpc>
```

Description Show SIP call information.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.
- netbios—NetBIOS.

- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.
- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<brief>—Display brief output (default).

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<get-service-sfw-sip-call-count-information>—Show count of matching entries.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<get-service-sfw-sip-register-information>

Usage

```
<rpc>
  <get-service-sfw-sip-register-information>
    <limit>limit</limit>
    <extensive/>
    <brief/>
    <terse/>
    <source-prefix>source-prefix</source-prefix>
    <destination-prefix>destination-prefix</destination-prefix>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <protocol>protocol-choice</protocol>
    <application-protocol>application-protocol-choice</application-protocol>
    <service-set>service-set</service-set>
    <interface>interface</interface>
    <get-service-sfw-sip-register-count-information/>
  </get-service-sfw-sip-register-information>
</rpc>
```

Description Show SIP register information.

Contents <application-protocol>—Application protocol type to use as filter.

- bootp—Bootstrap protocol.
- dce-rpc—DCE RPC.
- dce-rpc-portmap—DCE RPC portmap.
- dns—Domain Name Service.
- exec—Remote Execution Protocol.
- ftp—File Transfer Protocol.
- h323—H.323.
- icmp—ICMP.
- ignore—Ignore application type.
- iiop—Internet Inter-ORB Protocol.
- ip—IP.
- login—Login.
- mgcp-ca—MGCP-CA.
- mgcp-ua—MGCP-UA.
- ms-rpc—Microsoft RPC.
- netbios—NetBIOS.

- netshow—NetShow.
- pptp—Point-to-Point Tunneling Protocol.
- q931—Q.931.
- ras—RAS.
- realaudio—RealAudio.
- rpc—RPC.
- rpc-portmap—RPC portmap.
- rsh—Remote Shell.
- rtsp—Real Time Streaming Protocol.
- sccp—Skinny Client Control Protocol.
- shell—Shell.
- sip—Session Initiation Protocol.
- snmp—SNMP.
- sqlnet—SQLNet.
- sqlnet-v2—Oracle SQL*Net Version 2.
- sun-rpc—Sun Microsystems RPC.
- talk—Talk Program.
- tftp—Trivial File Transfer Protocol.
- traceroute—Traceroute.
- winframe—WinFrame.

<brief>—Display brief output (default).

<destination-port>—Destination port to use as filter.

<destination-prefix>—Destination prefix to use as filter.

<extensive>—Display extensive output.

<get-service-sfw-sip-register-count-information>—Show count of matching entries.

<interface>—Name of adaptive services interface.

<limit>—Maximum number of entries to display.

<protocol>—IP protocol type to use as filter.

- ah—IP Security authentication header.
- egp—Exterior gateway protocol.
- esp—IPSec Encapsulating Security Payload.
- gre—Generic routing encapsulation.
- icmp—Internet Control Message Protocol.
- igmp—Internet Group Management Protocol.
- ipip—IP in IP.
- number—Numeric protocol value (0 .. 255).
- ospf—Open Shortest Path First.
- pim—Protocol Independent Multicast.
- rsvp—Resource Reservation Protocol.
- sctp—Stream Control Transmission Protocol.
- tcp—Transmission Control Protocol.
- udp—User Datagram Protocol.

<service-set>—Name of service set.

<source-port>—Source port to use as filter.

<source-prefix>—Source prefix to use as filter.

<terse>—Display terse output.

<get-service-sfw-statistics-information>

Usage

```
<rpc>
  <get-service-sfw-statistics-information>
    <brief/>
    <detail/>
    <extensive/>
    <summary/>
    <service-set>service-set</service-set>
    <interface>interface</interface>
  </get-service-sfw-statistics-information>
</rpc>
```

Description Show statistics.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Name of adaptive services interface.

<service-set>—Name of service set.

<summary>—Display summary output.

<get-services-dynamic-flow-capture-content-destination-information>

Usage

```
<rpc>
  <get-services-dynamic-flow-capture-content-destination-information>
    <terse/>
    <capture-group>capture-group</capture-group>     <!-- mandatory -->
    <destination-identifier>destination-identifier</destination-identifier>     <!--
mandatory -->
  </get-services-dynamic-flow-capture-content-destination-information>
</rpc>
```

Description Show DFC content destination information.

Contents <capture-group>—Capture group name.

<destination-identifier>—Content destination identifier.

<terse>—Display terse output (default).

<get-services-dynamic-flow-capture-control-source-information>

Usage

```
<rpc>
  <get-services-dynamic-flow-capture-control-source-information>
    <detail/>
    <terse/>
    <capture-group>capture-group</capture-group>     <!-- mandatory -->
    <source-identifier>source-identifier</source-identifier>     <!-- mandatory -->
  </get-services-dynamic-flow-capture-control-source-information>
</rpc>
```

Description Show DFC control source information.

Contents <capture-group>—Capture group name.

<detail>—Display detailed output.

<source-identifier>—Control source identifier.

<terse>—Display terse output (default).

<get-services-flow-collector-file-information>

Usage

```
<rpc>
  <get-services-flow-collector-file-information>
    <interface>interface-choice</interface>     <!-- mandatory -->
    <extensive/>
    <detail/>
    <terse/>
  </get-services-flow-collector-file-information>
</rpc>
```

Description Show file status information.

Contents <detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Interface name.

- all—All configured Collector PICs.
- interface—Physical interface.

<terse>—Display terse output (default).

<get-services-flow-collector-information>

Usage

```
<rpc>
  <get-services-flow-collector-information>
    <extensive/>
    <detail/>
    <terse/>
    <interface>interface-choice</interface>     <!-- mandatory -->
  </get-services-flow-collector-information>
</rpc>
```

Description Show flow collector service information.

Contents <detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Interface name.

- all—All configured Collector PICs.
- interface—Physical interface.

<terse>—Display terse output (default).

<get-services-flow-collector-input-information>

Usage

```
<rpc>
  <get-services-flow-collector-input-information>
    <interface>interface-choice</interface>     <!-- mandatory -->
    <extensive/>
    <detail/>
    <terse/>
  </get-services-flow-collector-input-information>
</rpc>
```

Description Show input status information.

Contents <detail>—Display detailed output.

<extensive>—Display extensive output.

<interface>—Interface name.

- all—All configured Collector PICs.
- interface—Physical interface.

<terse>—Display terse output (default).

<get-services-ipsec-statistics-information>

Usage

```
<rpc>
  <get-services-ipsec-statistics-information>
    <remote-gw>remote-gw</remote-gw>
    <detail/>
    <brief/>
    <service-set>service-set</service-set>
  </get-services-ipsec-statistics-information>
</rpc>
```

Description Show IPSec statistics.

Contents <brief>—Display accumulated statistics (default).

<detail>—Display all tunnels.

<remote-gw>—Peer address to use as filter.

<service-set>—Name of service set.

<get-services-l2tp-radius-accounting-servers-information>

Usage

```
<rpc>
  <get-services-l2tp-radius-accounting-servers-information/>
</rpc>
```

Description Show RADIUS accounting servers information.

<get-services-l2tp-radius-accounting-statistics-information>

Usage

```
<rpc>
  <get-services-l2tp-radius-accounting-statistics-information/>
</rpc>
```

Description Show RADIUS accounting statistics information.

<get-services-l2tp-radius-authentication-accounting-servers-information>

Usage

```
<rpc>
  <get-services-l2tp-radius-authentication-accounting-servers-information/>
</rpc>
```

Description Show RADIUS authentication and accounting servers information.

<get-services-l2tp-radius-authentication-accounting-statistics-information>

Usage
```
<rpc>
  <get-services-l2tp-radius-authentication-accounting-statistics-information/>
</rpc>
```

Description Show RADIUS authentication and accounting statistics information.

<get-services-l2tp-radius-authentication-servers-information>

Usage
```
<rpc>
  <get-services-l2tp-radius-authentication-servers-information/>
</rpc>
```

Description Show RADIUS authentication servers information.

<get-services-l2tp-radius-authentication-statistics-information>

Usage
```
<rpc>
  <get-services-l2tp-radius-authentication-statistics-information/>
</rpc>
```

Description Show RADIUS authentication statistics information.

<get-services-pgcpd-root-termination>

Usage
```
<rpc>
  <get-services-pgcpd-root-termination/>
</rpc>
```

Description Show root termination h248 information.

<get-services-pgcpd-root-termination-gateway>

Usage
```
<rpc>
  <get-services-pgcpd-root-termination-gateway>
    <gateway-name>gateway-name</gateway-name>     <!-- mandatory -->
    <master/>
    <backup/>
  </get-services-pgcpd-root-termination-gateway>
</rpc>
```

Description Show root termination h248 information for gateway.

Contents <backup>—Query the backup ms-pic.

<gateway-name>—Gateway name.

<master>—Query the master RE or ms-pic (default).

<get-services-security-associations-information>

Usage

```
<rpc>
  <get-services-security-associations-information>
    <brief/>
    <detail/>
    <extensive/>
    <service-set>service-set</service-set>
  </get-services-security-associations-information>
</rpc>
```

Description Show IPSec security association information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<service-set>—Restrict output to one service set.

<get-sfm-information>

Usage

```
<rpc>
  <get-sfm-information/>
</rpc>
```

Description Show Switching and Forwarding Module status.

<get-show-bridge-domain-all-ce-flood-route-information>

Usage

```
<rpc>
  <get-show-bridge-domain-all-ce-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
  </get-show-bridge-domain-all-ce-flood-route-information>
</rpc>
```

Description Show route for flooding traffic to all CE routers if no-local-switching is enabled.

Contents <bridge-domain>—Display information for a specified bridge domain.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<get-show-bridge-domain-ve-flood-route-information>

Usage

```
<rpc>
  <get-show-bridge-domain-ve-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <bridge-domain>bridge-domain</bridge-domain>
  </get-show-bridge-domain-ve-flood-route-information>
</rpc>
```

Description Show route for flooding traffic to all VE routers if no-local-switching is enabled.

Contents <bridge-domain>—Display information for a specified bridge domain.

<instance>—Display information for a specified instance.

<logical-system>—Name of logical system, or 'all'.

<get-sib-information>

Usage

```
<rpc>
  <get-sib-information/>
</rpc>
```

Description Show Switch Interface Board status.

<get-snapshot-information>

Usage

```
<rpc>
  <get-snapshot-information>
    <media>media-choice</media>
  </get-snapshot-information>
</rpc>
```

Description Show snapshot information.

Contents <media>—Media to show snapshot information from.

- compact-flash—Show snapshot information from compact flash.
- hard-disk—Show snapshot information from hard disk.
- internal—Show snapshot information from internal flash.
- removable-compact-flash—Show snapshot information from removable compact flash.
- usb—Show snapshot information from device connected to USB port.

<get-snmp-inform-statistics>

Usage

```
<rpc>
  <get-snmp-inform-statistics/>
</rpc>
```

Description Show SNMP Inform request statistics.

<get-snmp-information>

Usage

```
<rpc>
  <get-snmp-information/>
</rpc>
```

Description Show SNMP statistics.

<get-snmp-object>

Usage

```
<rpc>
  <get-snmp-object>
    <decimal/>
    <ascii/>
    <snmp-object-name>snmp-object-name</snmp-object-name>     <!-- mandatory -->
  </get-snmp-object>
</rpc>
```

Description Get SNMP object value.

Contents <ascii>—Convert string indices to 'ascii-keys' representation.

<decimal>—Decimal format (default).

<snmp-object-name>—No documentation is available yet.

<get-snmp-v3-access-information>

Usage

```
<rpc>
  <get-snmp-v3-access-information>
    <brief/>
    <detail/>
  </get-snmp-v3-access-information>
</rpc>
```

Description Show SNMPv3 access information.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<get-snmp-v3-community-information>

Usage
```
<rpc>
  <get-snmp-v3-community-information/>
</rpc>
```

Description Show SNMPv3 community information.

<get-snmp-v3-general-information>

Usage
```
<rpc>
  <get-snmp-v3-general-information/>
</rpc>
```

Description Show general SNMPv3 information.

<get-snmp-v3-group-information>

Usage
```
<rpc>
  <get-snmp-v3-group-information/>
</rpc>
```

Description Show SNMPv3 security-to-group information.

<get-snmp-v3-information>

Usage
```
<rpc>
  <get-snmp-v3-information/>
</rpc>
```

Description Show SNMP version 3 information.

<get-snmp-v3-notify-filter-information>

Usage
```
<rpc>
  <get-snmp-v3-notify-filter-information/>
</rpc>
```

Description Show SNMPv3 notify filter information.

<get-snmp-v3-notify-information>

Usage
```
<rpc>
  <get-snmp-v3-notify-information/>
</rpc>
```

Description Show SNMPv3 notify information.

<get-snmp-v3-target-address-information>

Usage
```
<rpc>
  <get-snmp-v3-target-address-information/>
</rpc>
```

Description Show SNMPv3 target address information.

<get-snmp-v3-target-information>

Usage
```
<rpc>
  <get-snmp-v3-target-information/>
</rpc>
```

Description Show SNMPv3 target information.

<get-snmp-v3-target-parameters-information>

Usage
```
<rpc>
  <get-snmp-v3-target-parameters-information/>
</rpc>
```

Description Show SNMPv3 target parameters information.

<get-snmp-v3-usm-user-information>

Usage
```
<rpc>
  <get-snmp-v3-usm-user-information/>
</rpc>
```

Description Show SNMPv3 user information.

<get-software-information>

Usage
```
<rpc>
  <get-software-information>
    <brief/>
    <detail/>
  </get-software-information>
</rpc>
```

Description Show software process revision levels.

Contents <brief>—Display brief output.

<detail>—Display detailed output.

<get-software-installation-status>

Usage
```
<rpc>
  <get-software-installation-status/>
</rpc>
```

Description Show status of software installation.

<get-source-class-statistics>

Usage
```
<rpc>
  <get-source-class-statistics>
    <class-name>class-name</class-name>     <!-- mandatory -->
    <interface-name>interface-name</interface-name>
  </get-source-class-statistics>
</rpc>
```

Description Show statistics for source class.

Contents <class-name>—Name of source class.

<interface-name>—Name of logical interface.

<get-spmb-information>

Usage
```
<rpc>
  <get-spmb-information/>
</rpc>
```

Description Show Switch Processor Mezzanine Board status.

<get-spmb-sib-information>

Usage
```
<rpc>
  <get-spmb-sib-information/>
</rpc>
```

Description Show Switch Interface Board status.

<get-ssb-information>

Usage

```
<rpc>
  <get-ssb-information>
    <slot>slot</slot>
  </get-ssb-information>
</rpc>
```

Description Show System and Switch Board status.

Contents <slot>—SSB slot number.

<get-statistics-information>

Usage

```
<rpc>
  <get-statistics-information>
    <ip/>
    <ip6/>
    <icmp/>
    <icmp6/>
    <tcp/>
    <udp/>
    <igmp/>
    <arp/>
    <clns/>
    <esis/>
    <tnp/>
    <rdp/>
    <ttp/>
    <tudp/>
    <mpls/>
    <ethoam/>
  </get-statistics-information>
</rpc>
```

Description Show statistics for protocol.

Contents <arp>—Address Resolution Protocol.

<clns>—Connectionless Network Service.

<esis>—End System-to-Intermediate System.

<ethoam>—Ethernet OAM protocol.

<icmp>—Internet Control Message Protocol.

<icmp6>—Internet Control Message Protocol for IPv6.

<igmp>—Internet Gateway Management Protocol.

<ip>—IP version 4 (IPv4).

<ip6>—IP version 6 (IPv6).

<mpls>—Multiprotocol Label Switching.

<rdp>—Reliable Datagram Protocol.

<tcp>—Transmission Control Protocol.

<tnp>—Trivial Network Protocol.

<ttp>—TNP Tunneling Protocol.

<tudp>—Trivial User Datagram Protocol.

<udp>—User Datagram Protocol.

<get-subscribers>

Usage

```
<rpc>
  <get-subscribers>
    <address>address</address>
    <interface>interface</interface>
    <logical-system>logical-system</logical-system>
    <routing-instance>routing-instance</routing-instance>
    <profile-name>profile-name</profile-name>
    <stacked-vlan-id>stacked-vlan-id</stacked-vlan-id>
    <vlan-id>vlan-id</vlan-id>
    <terse/>
    <detail/>
    <count/>
  </get-subscribers>
</rpc>
```

Description Show subscriber information.

Contents <address>—IPv4 or IPv6 address of subscriber.

<count>—Display number of subscribers.

<detail>—Display detailed output.

<interface>—Interface name, or with wildcards (e.g. fe-0/0/*, fe-0/*/*).

<logical-system>—Logical system where subscriber resides.

<profile-name>—Profile with which subscriber has been activated.

<routing-instance>—Routing instance where subscriber resides.

<stacked-vlan-id>—Stacked VLAN identifier of subscriber.

<terse>—Display terse output.

<vlan-id>—VLAN identifier of subscriber.

<get-summary-mip-binding-information>

Usage

```
<rpc>
  <get-summary-mip-binding-information>
    <routing-instance>routing-instance</routing-instance>
    <logical-system>logical-system</logical-system>
  </get-summary-mip-binding-information>
</rpc>
```

Description Show summary of binding table.

Contents <logical-system>—Name of logical system.

<routing-instance>—Name of routing instance.

<get-switchover-information>

Usage

```
<rpc>
  <get-switchover-information/>
</rpc>
```

Description Show Routing Engine graceful switchover information.

<get-syslog-events>

Usage

```
<rpc>
  <get-syslog-events>
    <stream>stream</stream>     <!-- mandatory -->
    <event>event</event>
    <process>process</process>
    <priority>...</priority>
    <host>host</host>
    <start-time>start-time</start-time>
    <stop-time>stop-time</stop-time>
    <parameter>...</parameter>
    <text-pattern>text-pattern</text-pattern>
    <count>count</count>
    <recorded/>
  </get-syslog-events>
</rpc>
```

Description Show system log messages.

Contents <count>—Number of messages to include in output.

<event>—Event ID of messages to include in output.

<host>—Name of host generating messages to include in output.

<parameter>—Parameter (key = value) of messages to include in output.

<priority>—Facility and severity of messages to include in output.

<process>—Name of process generating messages to include in output.

<recorded>—Match only the recorded messages.

<start-time>—Earliest timestamp of messages to include in output.

<stop-time>—Latest timestamp of messages to include in output.

<stream>—Name of stream (log file) containing messages to filter.

<text-pattern>—Pattern in messages to include in output.

<get-syslog-filenames>

Usage

```
<rpc>
  <get-syslog-filenames/>
</rpc>
```

Description Get syslog file names.

<get-syslog-tag-information>

Usage
```
<rpc>
  <get-syslog-tag-information>
    <syslog-tag>syslog-tag</syslog-tag>
  </get-syslog-tag-information>
</rpc>
```

Description System log error messages.

Contents <syslog-tag>—System log tag or regular expression.

<get-system-alarm-information>

Usage
```
<rpc>
  <get-system-alarm-information/>
</rpc>
```

Description Show system alarm status.

<get-system-archival>

Usage
```
<rpc>
  <get-system-archival/>
</rpc>
```

Description List files queued up for archive transfer.

<get-system-firmware-information>

Usage
```
<rpc>
  <get-system-firmware-information>
    <compatibility/>
  </get-system-firmware-information>
</rpc>
```

Description Show all firmware version information.

Contents <compatibility>—Show all firmware compatibility information.

<get-system-resource-cleanup-processes-information>

Usage

```
<rpc>
  <get-system-resource-cleanup-processes-information>
    <detail/>
    <process-name>process-name</process-name>
    <pid>pid</pid>
  </get-system-resource-cleanup-processes-information>
</rpc>
```

Description Show process resource cleanup information.

Contents <detail>—Display detailed information.

<pid>—Process identifier.

<process-name>—Process name.

<get-system-services-reverse-information>

Usage

```
<rpc>
  <get-system-services-reverse-information/>
</rpc>
```

Description Show reverse telnet/SSH connection information.

<get-system-storage>

Usage

```
<rpc>
  <get-system-storage>
    <detail/>
  </get-system-storage>
</rpc>
```

Description Show local storage data.

Contents <detail>—No documentation is available yet.

<get-system-uptime-information>

Usage

```
<rpc>
  <get-system-uptime-information/>
</rpc>
```

Description Show time since system and processes started.

<get-system-users-information>

Usage

```
<rpc>
  <get-system-users-information>
    <no-resolve/>
  </get-system-users-information>
</rpc>
```

Description Show users who are currently logged in.

Contents <no-resolve>—Don't attempt to print addresses symbolically.

<get-ted-database-information>

Usage

```
<rpc>
  <get-ted-database-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
    <extensive/>
    <system-id>system-id</system-id>
  </get-ted-database-information>
</rpc>
```

Description Show current Traffic Engineering Database.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<logical-system>—Name of logical system, or 'all'.

<system-id>—System ID or node ID.

<get-ted-link-information>

Usage

```
<rpc>
  <get-ted-link-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
  </get-ted-link-information>
</rpc>
```

Description Show current Traffic Engineering Database link.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<get-ted-protocol-information>

Usage

```
<rpc>
  <get-ted-protocol-information>
    <logical-system>logical-system</logical-system>
    <brief/>
    <detail/>
  </get-ted-protocol-information>
</rpc>
```

Description Show current contributing protocols.

Contents <brief>—Display brief output (default).

<detail>—Display detailed output.

<logical-system>—Name of logical system, or 'all'.

<get-temperature-threshold-information>

Usage

```
<rpc>
  <get-temperature-threshold-information/>
</rpc>
```

Description Show chassis temperature threshold settings.

<get-uri-redirect-set-statistics-information>

Usage

```
<rpc>
  <get-uri-redirect-set-statistics-information>
    <detail/>
  </get-uri-redirect-set-statistics-information>
</rpc>
```

Description Show URI redirect set statistics.

Contents <detail>—Display detailed statistics.

<get-vcpu-information>

Usage

```
<rpc>
  <get-vcpu-information>
    <detail/>
    <slot>slot</slot>
  </get-vcpu-information>
</rpc>
```

Description Show Visibility CPU status.

Contents <detail>—Display detailed output.

<slot>—VCPU slot number.

<get-vpls-all-ce-flood-route-information>

Usage

```
<rpc>
  <get-vpls-all-ce-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>     <!-- mandatory -->
  </get-vpls-all-ce-flood-route-information>
</rpc>
```

Description Show route for flooding traffic to all CE routers.

Contents <instance>—Display information for a specified vpls.

<logical-system>—Name of logical system.

<get-vpls-all-flood-route-information>

Usage

```
<rpc>
  <get-vpls-all-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>     <!-- mandatory -->
  </get-vpls-all-flood-route-information>
</rpc>
```

Description Show route for flooding traffic from customer edge router.

Contents <instance>—Display information for a specified vpls.

<logical-system>—Name of logical system.

<get-vpls-alt-root-flood-route-information>

Usage

```
<rpc>
  <get-vpls-alt-root-flood-route-information>
    <interface>interface</interface>     <!-- mandatory -->
  </get-vpls-alt-root-flood-route-information>
</rpc>
```

Description Show STP alt-root flooding route used for interface.

Contents <interface>—Interface for which to show alternate-root flooding route.

<get-vpls-ce-flood-route-information>

Usage

```
<rpc>
  <get-vpls-ce-flood-route-information>
    <interface>interface</interface>     <!-- mandatory -->
  </get-vpls-ce-flood-route-information>
</rpc>
```

Description Show customer edge flood route.

Contents <interface>—Interface for which to show CE flood route.

<get-vpls-connection-information>

Usage

```
<rpc>
  <get-vpls-connection-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
    <local-site>local-site</local-site>
    <remote-site>remote-site</remote-site>
    <down/>
    <up/>
    <up-down/>
    <brief/>
    <extensive/>
    <history/>
    <status/>
    <summary/>
  </get-vpls-connection-information>
</rpc>
```

Description Show VPLS connections information.

Contents <brief>—Display one-line version of output.

<down>—Display nonoperational connections.

<extensive>—Display connection status and history.

<history>—Display connection history.

<instance>—Name of VPLS instance.

<local-site>—Name or ID of VPLS local site.

<logical-system>—Name of logical system, or 'all'.

<remote-site>—ID of VPLS remote site.

<status>—Display connection and circuit status (default).

<summary>—Display summary output.

<up>—Display operational connections.

<up-down>—Display both non- and operational connections (default).

<get-vpls-event-queue-information>

Usage

```
<rpc>
  <get-vpls-event-queue-information/>
</rpc>
```

Description Show queue of pending VPLS flood events.

<get-vpls-interface-mac-table>

Usage

```
<rpc>
  <get-vpls-interface-mac-table>
    <interface-name>interface-name</interface-name>
    <all/>
    <detail/>
    <brief/>
    <extensive/>
    <count/>
  </get-vpls-interface-mac-table>
</rpc>
```

Description Display MAC table for a specified interface.

Contents <all>—Display MAC table for all the interfaces.

<brief>—Display brief output.

<count>—Display count only.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<interface-name>—Name of interface for which to display table.

<get-vpls-mac-table>

Usage

```
<rpc>
  <get-vpls-mac-table>
    <instance>instance</instance>
    <logical-system>logical-system</logical-system>
    <vlan-id>vlan-id-choice</vlan-id>
    <address>address</address>
    <detail/>
    <brief/>
    <extensive/>
    <count/>
  </get-vpls-mac-table>
</rpc>
```

Description Show media access control table.

Contents <address>—MAC address.

<brief>—Display brief output.

<count>—Display count only.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Display information for a specified vpls.

<logical-system>—Name of logical system, or 'all'.

<vlan-id>—Display MAC address learned on a specified VLAN.

- all-vlan—Display MAC addresses on all VLAN(s).
- vlan-id—Display MAC address learned on a specified VLAN.

<get-vpls-mlp-flood-route-information>

Usage

```
<rpc>
  <get-vpls-mlp-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>     <!-- mandatory -->
  </get-vpls-mlp-flood-route-information>
</rpc>
```

Description Show route for flooding traffic to MAC learning chips.

Contents <instance>—Display information for a specified vpls.

<logical-system>—Name of logical system.

<get-vpls-re-flood-route-information>

Usage

```
<rpc>
  <get-vpls-re-flood-route-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>     <!-- mandatory -->
  </get-vpls-re-flood-route-information>
</rpc>
```

Description Show route for Routing Engine flooding to all interfaces.

Contents <instance>—Display information for a specified vpls.

<logical-system>—Name of logical system.

<get-vpls-statistics-information>

Usage

```
<rpc>
  <get-vpls-statistics-information>
    <logical-system>logical-system</logical-system>
    <instance>instance</instance>
  </get-vpls-statistics-information>
</rpc>
```

Description Show VPLS statistics information.

Contents <instance>—Name of VPLS instance.

<logical-system>—Name of logical system, or 'all'.

<network-services>

Usage

```
<rpc>
  <network-services/>
</rpc>
```

Description Show chassis network services.

<next-snmp-object>

Usage

```
<rpc>
  <next-snmp-object>
    <decimal/>
    <ascii/>
    <snmp-object-name>snmp-object-name</snmp-object-name>     <!-- mandatory -->
  </next-snmp-object>
</rpc>
```

Description Get next SNMP object value.

Contents <ascii>—Convert string indices to 'ascii-keys' representation.

<decimal>—Decimal format (default).

<snmp-object-name>—No documentation is available yet.

<node-secret-file-table>

Usage

```
<rpc>
  <node-secret-file-table/>
</rpc>
```

Description Show SecurID server's node secret file path.

<op-script>

Usage

```
<rpc>
  <op-script>
    <script>script</script>     <!-- mandatory -->
    <detail/>
  </op-script>
</rpc>
```

Description Invoke an operation script.

Contents <detail>—Display detailed output.

<script>—Name of script to run.

<ping>

Usage

```
<rpc>
  <ping>
    <count>packets</count>
    <wait>seconds</wait>
    <no-resolve/>
    <rapid/>
    <record-route/>
    <detail/>
    <do-not-fragment/>
    <loose-source>...</loose-source>
    <interface>interface</interface>
    <interval>seconds</interval>
    <source>source</source>
    <pattern>pattern</pattern>
    <size>bytes</size>
    <strict/>
    <strict-source>...</strict-source>
    <ttl>hops</ttl>
    <verbose/>
    <tos>tos</tos>
    <bypass-routing/>
    <inet/>
    <inet6/>
    <routing-instance>routing-instance</routing-instance>
    <host>host</host>     <!-- mandatory -->
    <logical-system>logical-system</logical-system>
  </ping>
</rpc>
```

Description Ping remote target.

Contents <bypass-routing>—Bypass routing table, use specified interface.

<count>—Number of ping requests to send.

<detail>—Display incoming interface of received packet.

<do-not-fragment>—Don't fragment echo request packets (IPv4).

<host>—Hostname or IP address of remote host.

<inet>—Force ping to IPv4 destination.

<inet6>—Force ping to IPv6 destination.

<interface>—Source interface (multicast, all-ones, unrouted packets).

<interval>—Delay between ping requests.

<logical-system>—Name of logical system.

<loose-source>—Intermediate loose source route entry (IPv4).

<no-resolve>—Don't attempt to print addresses symbolically.

<pattern>—Hexadecimal fill pattern.

<rapid>—Send requests rapidly (default count of 5).

<record-route>—Record and report packet's path (IPv4).

<routing-instance>—Routing instance for ping attempt.

<size>—Size of request packets.

<source>—Source address of echo request.

<strict>—Use strict source route option (IPv4).

<strict-source>—Intermediate strict source route entry (IPv4).

<tos>—IP type-of-service value.

<ttl>—IP time-to-live value (IPv6 hop-limit value).

<verbose>—Display detailed output.

<wait>—Delay after sending last packet.

<reload-eedebug-action-profile>

Usage
```
<rpc>
  <reload-eedebug-action-profile/>
</rpc>
```

Description Reload all datapath-debug action profile.

<reload-event-scripts>

Usage
```
<rpc>
  <reload-event-scripts/>
</rpc>
```

Description Reload all existing event-scripts.

<request-appid-application-package-download>

Usage
```
<rpc>
  <request-appid-application-package-download/>
</rpc>
```

Description Download application package.

<request-appid-application-package-download-version>

Usage
```
<rpc>
  <request-appid-application-package-download-version>
    <version-value>version-value</version-value>     <!-- mandatory -->
  </request-appid-application-package-download-version>
</rpc>
```

Description Version of application package to download.

Contents <version-value>—Version number (1 - 65535).

<request-appid-application-package-uninstall>

Usage
```
<rpc>
  <request-appid-application-package-uninstall/>
</rpc>
```

Description Uninstall application package.

<request-delete-rescue-configuration>

Usage
```
<rpc>
  <request-delete-rescue-configuration/>
</rpc>
```

Description Delete the rescue configuration.

<request-end-session>

Usage
```
<rpc>
  <request-end-session/>
</rpc>
```

Description Exit the management session.

<request-feb>

Usage

```
<rpc>
  <request-feb>
    <slot>slot</slot>     <!-- mandatory -->
    <offline/>
    <online/>
    <restart/>
  </request-feb>
</rpc>
```

Description Change Forwarding Engine Board status.

Contents <offline>—Take FEB offline.

<online>—Bring FEB online.

<restart>—Restart FEB.

<slot>—FEB slot number.

<request-ggsn-restart-interface>

Usage

```
<rpc>
  <request-ggsn-restart-interface>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </request-ggsn-restart-interface>
</rpc>
```

Description Restart GGSN service interface.

Contents <interface-name>—Name of GGSN service interface.

<request-ggsn-restart-node>

Usage

```
<rpc>
  <request-ggsn-restart-node/>
</rpc>
```

Description Restart GGSN node activity.

<request-ggsn-software-update>

Usage

```
<rpc>
  <request-ggsn-software-update/>
</rpc>
```

Description Start GGSN in service update.

<request-ggsn-start-imsi-trace>

Usage

```
<rpc>
  <request-ggsn-start-imsi-trace>
    <imsi-identifier>imsi-identifier</imsi-identifier>     <!-- mandatory -->
  </request-ggsn-start-imsi-trace>
</rpc>
```

Description Start tracing International Mobile Subscriber Identity.

Contents <imsi-identifier>—Identifier for IMSI.

<request-ggsn-start-msisdn-trace>

Usage

```
<rpc>
  <request-ggsn-start-msisdn-trace>
    <msisdn-identifier>msisdn-identifier</msisdn-identifier>     <!-- mandatory -->
  </request-ggsn-start-msisdn-trace>
</rpc>
```

Description Start tracing Mobile Station Integrated Services Digital Network.

Contents <msisdn-identifier>—Identifier for MSISDN.

<request-ggsn-stop-imsi-trace>

Usage

```
<rpc>
  <request-ggsn-stop-imsi-trace>
    <imsi-identifier>imsi-identifier</imsi-identifier>     <!-- mandatory -->
  </request-ggsn-stop-imsi-trace>
</rpc>
```

Description Stop tracing International Mobile Subscriber Identity.

Contents <imsi-identifier>—Identifier for IMSI.

<request-ggsn-stop-interface>

Usage

```
<rpc>
  <request-ggsn-stop-interface>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
  </request-ggsn-stop-interface>
</rpc>
```

Description Stop GGSN service interface.

Contents <interface-name>—Name of GGSN service interface.

<request-ggsn-stop-msisdn-trace>

Usage

```
<rpc>
  <request-ggsn-stop-msisdn-trace>
    <msisdn-identifier>msisdn-identifier</msisdn-identifier>     <!-- mandatory -->
  </request-ggsn-stop-msisdn-trace>
</rpc>
```

Description Stop tracing Mobile Station Integrated Services Digital Network.

Contents <msisdn-identifier>—Identifier for MSISDN.

<request-ggsn-stop-node>

Usage

```
<rpc>
  <request-ggsn-stop-node/>
</rpc>
```

Description Stop GGSN node activity.

<request-ggsn-stop-trace-activity>

Usage

```
<rpc>
  <request-ggsn-stop-trace-activity/>
</rpc>
```

Description Stop all tracing.

<request-ggsn-terminate-context>

Usage

```
<rpc>
  <request-ggsn-terminate-context>
    <imsi>imsi</imsi>     <!-- mandatory -->
    <nsapi>nsapi</nsapi>
  </request-ggsn-terminate-context>
</rpc>
```

Description Terminate specified kind of PDP context.

Contents <imsi>—Identifier for International Mobile Subscriber Identity.

<nsapi>—Network layer service access point identifier.

<request-ggsn-terminate-contexts-apn>

Usage

```
<rpc>
  <request-ggsn-terminate-contexts-apn>
    <apn-name>apn-name</apn-name>     <!-- mandatory -->
    <user-category>user-category-choice</user-category>
  </request-ggsn-terminate-contexts-apn>
</rpc>
```

Description Terminate all PDP contexts in access point name.

Contents <apn-name>—Name of access point name.

<user-category>—Name of user category ('default' or 1..63).

- default—No documentation is available yet.
- user-value—No documentation is available yet.

<request-ggsn-terminate-msisdn-context>

Usage

```
<rpc>
  <request-ggsn-terminate-msisdn-context>
    <msisdn>msisdn</msisdn>     <!-- mandatory -->
  </request-ggsn-terminate-msisdn-context>
</rpc>
```

Description Terminate context for Mobile Station Integrated Services Digital Network.

Contents <msisdn>—Identifier for MSISDN.

<request-halt>

Usage

```
<rpc>
  <request-halt>
    <at>at</at>
    <in>in</in>
    <message>message</message>
    <media>media-choice</media>
    <partition>partition-choice</partition>
    <both-routing-engines/>
    <other-routing-engine/>
  </request-halt>
</rpc>
```

Description Halt the system.

Contents <at>—Time at which to perform the operation.

<both-routing-engines>—Halt both Routing Engines.

<in>—Number of minutes to delay before operation.

<media>—Boot media for next boot.

- compact-flash—Standard boot off flash device.
- disk—Boot off hard disk.
- external—Boot from external mass storage device.
- internal—Boot from internal NAND flash.
- removable-compact-flash—Boot off removable compact flash device.
- usb—Boot off USB device.

<message>—Message to display to all users.

<other-routing-engine>—Halt other Routing Engine.

<partition>—Partition on boot media to boot from.

- 1—Boot from first partition.
- 2—Boot from second partition.
- alternate—Boot from alternate partition.

<request-idp-security-package-download>

Usage

```
<rpc>
  <request-idp-security-package-download>
    <re0/>
    <re1/>
    <full-update/>
    <check-server/>
    <policy-templates/>
    <precompiled-policy/>
    <status/>
    <policy-template-result/>
  </request-idp-security-package-download>
</rpc>
```

Description Download security package (Package includes detector and deltas for attack table).

Contents <check-server>—Retrieve version information for latest package on server.

<full-update>—Download package with complete attack table.

<policy-template-result>—Status of policy templates operation.

<policy-templates>—Download policy templates.

<precompiled-policy>—Download pre-compiled 'Recommended' policy and detector for it.

<re0>—RE0.

<re1>—RE1.

<status>—Retrieve the status of security package download operation.

<request-idp-security-package-download-version>

Usage

```
<rpc>
  <request-idp-security-package-download-version>
    <re0/>
    <re1/>
    <version-value>version-value</version-value>     <!-- mandatory -->
    <full-update/>
  </request-idp-security-package-download-version>
</rpc>
```

Description Version of package to download.

Contents <full-update>—Download package with complete attack table.

<re0>—RE0.

<re1>—RE1.

<version-value>—Version number.

<request-idp-security-package-install>

Usage

```
<rpc>
  <request-idp-security-package-install>
    <re0/>
    <re1/>
    <update-attack-database-only/>
    <policy-templates/>
    <precompiled-policy/>
    <older-detector/>
    <status/>
    <policy-template-result/>
  </request-idp-security-package-install>
</rpc>
```

Description Update attack database, active policy, detector with new package.

Contents <older-detector>—Update dataplane with older detector.

<policy-template-result>—Status of policy templates operation.

<policy-templates>—Update previously installed policy-templates with newly downloaded ones.

<precompiled-policy>—Update dataplane 'Recommended' policy and detector for it with newly downloaded ones.

<re0>—RE0.

<re1>—RE1.

<status>—Retrieve the status of security package load operation.

<update-attack-database-only>—Don't update/push active policy or detector to data plane.

<request-idp-security-package-load>

Usage

```
<rpc>
  <request-idp-security-package-load>
    <policy>policy</policy>
    <no-ai/>
    <detector>detector</detector>
  </request-idp-security-package-load>
</rpc>
```

Description Load a compiled policy.

Contents <detector>—Detector file name.

<no-ai>—Application identification flag.

<policy>—Compiled policy file name.

<request-idp-ssl-key-add>

Usage

```
<rpc>
  <request-idp-ssl-key-add>
    <key-name>key-name</key-name>     <!-- mandatory -->
    <file>file</file>
    <password>password</password>
    <server>server</server>
  </request-idp-ssl-key-add>
</rpc>
```

Description Add SSL key and server.

Contents <file>—Key file.

<key-name>—Key name.

<password>—Password used to encrypt private key.

<server>—Server IP address.

<request-idp-ssl-key-delete>

Usage

```
<rpc>
  <request-idp-ssl-key-delete>
    <key-name>key-name</key-name>
    <server>server</server>
  </request-idp-ssl-key-delete>
</rpc>
```

Description Delete SSL keys.

Contents <key-name>—Key name.

<server>—Server IP address.

<request-license-delete>

Usage

```
<rpc>
  <request-license-delete>
    <license-identifier>license-identifier</license-identifier>     <!-- mandatory -->
  </request-license-delete>
</rpc>
```

Description Delete license keys.

Contents <license-identifier>—Identifier of installed license key.

<request-monitor-ethernet-delay-measurement>

Usage

```
<rpc>
  <request-monitor-ethernet-delay-measurement>
    <one-way/>
    <two-way/>
    <wait>seconds</wait>
    <count>count</count>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association</maintenance-association>
<!-- mandatory -->
    <remote-mac-address>remote-mac-address</remote-mac-address>
    <mep>mep</mep>
  </request-monitor-ethernet-delay-measurement>
</rpc>
```

Description Trigger ethernet delay measurement from local to remote host.

Contents <count>—Number of delay measurement requests to send.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<mep>—MEP identifier of remote host.

<one-way>—One-way delay measurement.

<remote-mac-address>—MAC address of remote host in xx:xx:xx:xx:xx:xx format.

<two-way>—Two-way delay measurement.

<wait>—Delay after sending last packet.

<request-package-add>

Usage

```
<rpc>
  <request-package-add>
    <force/>
    <reboot/>
    <delay-restart/>
    <no-copy/>
    <no-validate/>
    <validate/>
    <best-effort-load/>
    <unlink/>
    <package-name>package-name</package-name>     <!-- mandatory -->
    <re0/>
    <re1/>
    <scc/>
    <lcc>lcc</lcc>
    <sfc/>
    <member>member</member>
    <dont-forward/>
  </request-package-add>
</rpc>
```

Description Add extension or upgrade package.

Contents <best-effort-load>—Load succeeds if at least one statement is valid.

<delay-restart>—Don't restart processes.

<dont-forward>—No documentation is available yet.

<force>—Force addition of package (ignore warnings).

<lcc>—Install package on an LCC.

<member>—Install package on VC Member.

<no-copy>—Don't save copies of package files.

<no-validate>—Don't check compatibility with current configuration.

<package-name>—URL or pathname of package.

<re0>—Install package on RE0.

<re1>—Install package on RE1.

<reboot>—Reboot system after adding package.

<scc>—Install package on SCC.

<sfc>—Install package on SFC.

<unlink>—Remove the package after successful installation.

<validate>—Check compatibility with current configuration.

<request-package-delete>

Usage

```
<rpc>
  <request-package-delete>
    <force/>
    <package-name>package-name</package-name>     <!-- mandatory -->
  </request-package-delete>
</rpc>
```

Description Remove extension or upgrade package.

Contents <force>—Force removal of package (ignore warnings).

<package-name>—Name of package.

<request-package-delete-backup>

Usage

```
<rpc>
  <request-package-delete-backup/>
</rpc>
```

Description Delete old system software packages.

<request-package-in-service-upgrade>

Usage

```
<rpc>
  <request-package-in-service-upgrade>
    <reboot/>
    <package-name>package-name</package-name>     <!-- mandatory -->
    <no-old-master-upgrade/>
    <no-copy/>
    <unlink/>
  </request-package-in-service-upgrade>
</rpc>
```

Description In-service software upgrade.

Contents <no-copy>—Don't save copies of package files.

<no-old-master-upgrade>—Don't upgrade the old master after switchover.

<package-name>—URL or pathname of package.

<reboot>—Reboot system after adding package.

<unlink>—Remove the package after successful installation.

<request-package-rollback>

Usage

```
<rpc>
  <request-package-rollback/>
</rpc>
```

Description Attempt to roll back to previous set of packages.

<request-package-validate>

Usage

```
<rpc>
  <request-package-validate>
    <package-name>package-name</package-name>     <!-- mandatory -->
    <scc/>
    <lcc>lcc</lcc>
    <sfc/>
    <member>member</member>
    <dont-forward/>
  </request-package-validate>
</rpc>
```

Description Verify package compatibility with current configuration.

Contents <dont-forward>—No documentation is available yet.

<lcc>—Validate package on an LCC.

<member>—Install package on VC Member.

<package-name>—URL or path of package.

<scc>—Validate package on SCC.

<sfc>—Validate package on SFC.

<request-ping-ethernet>

Usage

```
<rpc>
  <request-ping-ethernet>
    <wait>seconds</wait>
    <size>bytes</size>
    <count>count</count>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association</maintenance-association>
<!-- mandatory -->
    <host>host</host>
    <mep>mep</mep>
  </request-ping-ethernet>
</rpc>
```

Description Ping to an ethernet host by unicast mac address.

Contents <count>—Number of ping requests to send.

<host>—MAC address of remote host in xx:xx:xx:xx:xx:xx format.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<mep>—MEP identifier of remote host.

<size>—Size of data TLV in request packets.

<wait>—Delay after sending last packet.

<request-ping-l2circuit-interface>

Usage

```
<rpc>
  <request-ping-l2circuit-interface>
    <v1/>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-l2circuit-interface>
</rpc>
```

Description Locate LSP from interface name.

Contents

<count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<interface-name>—Interface name.

<logical-system>—Name of logical system.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<v1>—Ping using Layer 2 circuit TLV (type 9).

<request-ping-l2circuit-virtual-circuit>

Usage

```
<rpc>
  <request-ping-l2circuit-virtual-circuit>
    <v1/>
    <neighbor>neighbor</neighbor>     <!-- mandatory -->
    <virtual-circuit-id>virtual-circuit-id</virtual-circuit-id>     <!-- mandatory -->
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-l2circuit-virtual-circuit>
</rpc>
```

Description Locate LSP from virtual circuit information.

Contents <count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<logical-system>—Name of logical system.

<neighbor>—Address of remote neighbor.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<v1>—Ping using Layer 2 circuit TLV (type 9).

<virtual-circuit-id>—Layer 2 circuit identifier.

<request-ping-l2vpn-instance>

Usage

```
<rpc>
  <request-ping-l2vpn-instance>
    <instance-name>instance-name</instance-name>     <!-- mandatory -->
    <local-site-id>local-site-id</local-site-id>     <!-- mandatory -->
    <remote-site-id>remote-site-id</remote-site-id>     <!-- mandatory -->
    <bottom-label-ttl>bottom-label-ttl</bottom-label-ttl>
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-l2vpn-instance>
</rpc>
```

Description Instance to which this connection belongs.

Contents

<bottom-label-ttl>—Time to live for the bottom label in the label stack.

<count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<instance-name>—Layer 2 VPN name.

<local-site-id>—Layer 2 VPN local site identifier.

<logical-system>—Name of logical system.

<remote-site-id>—Layer 2 VPN remote site identifier.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<request-ping-l2vpn-interface>

Usage

```
<rpc>
  <request-ping-l2vpn-interface>
    <interface-name>interface-name</interface-name>     <!-- mandatory -->
    <bottom-label-ttl>bottom-label-ttl</bottom-label-ttl>
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-l2vpn-interface>
</rpc>
```

Description Locate LSP using interface name.

Contents <bottom-label-ttl>—Time to live for the bottom label in the label stack.

<count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<interface-name>—Interface name.

<logical-system>—Name of logical system.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<request-ping-l3vpn>

Usage

```
<rpc>
  <request-ping-l3vpn>
    <l3vpn-name>l3vpn-name</l3vpn-name>     <!-- mandatory -->
    <prefix>prefix</prefix>     <!-- mandatory -->
    <bottom-label-ttl>bottom-label-ttl</bottom-label-ttl>
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-l3vpn>
</rpc>
```

Description Ping LSP to Layer 3 VPN prefix.

Contents <bottom-label-ttl>—Time to live for the bottom label in the label stack.

<count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<l3vpn-name>—Name of Layer 3 VPN.

<logical-system>—Name of logical system.

<prefix>—IP prefix/length of Layer 3 VPN.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<request-ping-ldp-lsp>

Usage

```
<rpc>
  <request-ping-ldp-lsp>
    <fec>fec</fec>     <!-- mandatory -->
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-ldp-lsp>
</rpc>
```

Description Ping LDP-signaled LSP.

Contents <count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<fec>—IP prefix/length of forwarding equivalence class.

<logical-system>—Name of logical system.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<request-ping-lsp-end-point>

Usage

```
<rpc>
  <request-ping-lsp-end-point>
    <prefix>prefix</prefix>     <!-- mandatory -->
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-lsp-end-point>
</rpc>
```

Description Ping end point of LSP.

Contents <count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<exp>—Forwarding class.

<logical-system>—Name of logical system.

<prefix>—IP prefix/length of end point.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<sweep>—Incremental ping to find MTU.

<request-ping-rsvp-lsp>

Usage

```
<rpc>
  <request-ping-rsvp-lsp>
    <lsp-name>lsp-name</lsp-name>     <!-- mandatory -->
    <standby>standby</standby>
    <multipoint/>
    <egress>egress</egress>
    <count>packets</count>
    <source>source</source>
    <destination>destination</destination>
    <exp>exp</exp>
    <detail/>
    <size>bytes</size>
    <sweep/>
    <logical-system>logical-system</logical-system>
  </request-ping-rsvp-lsp>
</rpc>
```

Description Ping RSVP-signaled LSP.

Contents <count>—Number of ping requests to send.

<destination>—IP address of destination for echo request.

<detail>—Display detailed output.

<egress>—Request only a specific multipoint egress to respond.

<exp>—Forwarding class.

<logical-system>—Name of logical system.

<lsp-name>—Name of LSP.

<multipoint>—Probe multipoint LSP.

<size>—Size of lsp ping request packet.

<source>—IP source address of echo request.

<standby>—Name of standby path.

<sweep>—Incremental ping to find MTU.

<request-ping-vpls-instance>

Usage

```
<rpc>
  <request-ping-vpls-instance>
    <instance-name>instance-name</instance-name>     <!-- mandatory -->
    <destination-mac>destination-mac</destination-mac>     <!-- mandatory -->
    <source-ip>source-ip</source-ip>     <!-- mandatory -->
    <learning-vlan-id>learning-vlan-id</learning-vlan-id>
    <control-plane-response/>
    <bd-name>bd-name</bd-name>
    <count>packets</count>
    <detail/>
    <logical-system>logical-system</logical-system>
  </request-ping-vpls-instance>
</rpc>
```

Description Instance to which this VPLS connection belongs.

Contents <bd-name>—Name of bridge domain.

<control-plane-response>—Request VPLS OAM responses using the control plane .

<count>—Number of ping requests to send.

<destination-mac>—Destination MAC address.

<detail>—Display detailed output.

<instance-name>—Layer 2 VPLS name.

<learning-vlan-id>—Learning VLAN identifier.

<logical-system>—Name of logical system.

<source-ip>—Source IP address.

<request-power-off>

Usage

```
<rpc>
  <request-power-off>
    <at>at</at>
    <in>in</in>
    <message>message</message>
    <media>media-choice</media>
    <partition>partition-choice</partition>
    <both-routing-engines/>
    <other-routing-engine/>
  </request-power-off>
</rpc>
```

Description Power off the system.

Contents <at>—Time at which to perform the operation.

<both-routing-engines>—Power off both Routing Engines.

<in>—Number of minutes to delay before operation.

<media>—Boot media for next boot.

- compact-flash—Standard boot off flash device.
- disk—Boot off hard disk.
- external—Boot from external mass storage device.
- internal—Boot from internal NAND flash.
- removable-compact-flash—Boot off removable compact flash device.
- usb—Boot off USB device.

<message>—Message to display to all users.

<other-routing-engine>—Power off other Routing Engine.

<partition>—Partition on boot media to boot from.

- 1—Boot from first partition.
- 2—Boot from second partition.
- alternate—Boot from alternate partition.

<request-reboot>

Usage

```
<rpc>
  <request-reboot>
    <at>at</at>
    <in>in</in>
    <message>message</message>
    <media>media-choice</media>
    <partition>partition-choice</partition>
    <other-routing-engine/>
  </request-reboot>
</rpc>
```

Description Reboot the system.

Contents <at>—Time at which to perform the operation.

<in>—Number of minutes to delay before operation.

<media>—Boot media for next boot.

- compact-flash—Standard boot off flash device.
- disk—Boot off hard disk.
- external—Boot from external mass storage device.
- internal—Boot from internal NAND flash.
- removable-compact-flash—Boot off removable compact flash device.
- usb—Boot off USB device.

<message>—Message to display to all users.

<other-routing-engine>—Reboot the other Routing Engine.

<partition>—Partition on boot media to boot from.

- 1—Boot from first partition.
- 2—Boot from second partition.
- alternate—Boot from alternate partition.

<request-redundancy-feb>

Usage

```
<rpc>
  <request-redundancy-feb>
    <slot>slot</slot>     <!-- mandatory -->
    <switch-to-backup/>
    <revert-from-backup/>
  </request-redundancy-feb>
</rpc>
```

Description Change Forwarding Engine Board redundancy status.

Contents <revert-from-backup>—Revert mastership back to configured default.

<slot>—FEB slot number.

<switch-to-backup>—Switch mastership to other FEB.

<request-save-rescue-configuration>

Usage

```
<rpc>
  <request-save-rescue-configuration/>
</rpc>
```

Description Save committed configuration as rescue configuration.

<request-scripts-package-add>

Usage

```
<rpc>
  <request-scripts-package-add>
    <no-copy/>
    <unlink/>
    <package-name>package-name</package-name>     <!-- mandatory -->
    <scc/>
    <lcc>lcc</lcc>
    <sfc/>
    <member>member</member>
    <dont-forward/>
  </request-scripts-package-add>
</rpc>
```

Description Add or upgrade jais package.

Contents <dont-forward>—No documentation is available yet.

<lcc>—Install package on an LCC.

<member>—Install package on VC Member.

<no-copy>—Don't save copy of jais package file.

<package-name>—URL or pathname of package.

<scc>—Install package on SCC.

<sfc>—Install package on SFC.

<unlink>—Remove the package after successful installation.

<request-scripts-package-delete>

Usage

```
<rpc>
  <request-scripts-package-delete/>
</rpc>
```

Description Remove jais package.

<request-scripts-package-rollback>

Usage

```
<rpc>
  <request-scripts-package-rollback/>
</rpc>
```

Description Attempt to roll back to last jais package.

<request-services-flow-collector-destination>

Usage

```
<rpc>
  <request-services-flow-collector-destination>
    <primary/>
    <secondary/>
    <interface>interface</interface>     <!-- mandatory -->
    <clear-files/>
    <clear-logs/>
    <gracefully/>
    <immediately/>
  </request-services-flow-collector-destination>
</rpc>
```

Description Change to Destination server.

Contents <clear-files>—Remove existing files.

<clear-logs>—Remove existing logs.

<gracefully>—Retain existing FTP connections.

<immediately>—Terminate existing FTP connections.

<interface>—Physical interface.

<primary>—Primary server.

<secondary>—Secondary server.

<request-services-flow-collector-test-file-transfer>

Usage

```
<rpc>
  <request-services-flow-collector-test-file-transfer>
    <filename>filename</filename>     <!-- mandatory -->
    <channel-zero/>
    <channel-one/>
    <primary/>
    <secondary/>
    <interface>interface-choice</interface>     <!-- mandatory -->
  </request-services-flow-collector-test-file-transfer>
</rpc>
```

Description Transfer a test file to the current primary server.

Contents <channel-one>—Channel 1.

<channel-zero>—Channel 0.

<filename>—Specify the filename to use.

<interface>—Interface name.

- all—All configured Collector PICs.
- interface—Physical interface.

<primary>—Primary server.

<secondary>—Secondary server.

<request-snapshot>

Usage

```
<rpc>
  <request-snapshot>
    <partition/>
    <factory/>
    <as-primary/>
    <swap-size>swap-size</swap-size>
    <config-size>config-size</config-size>
    <root-size>root-size</root-size>
    <data-size>data-size</data-size>
    <media>media-choice</media>
  </request-snapshot>
</rpc>
```

Description Archive data and executable areas.

Contents <as-primary>—Setup snapshot to be used in the primary boot device.

<config-size>—Size of the config partition.

<data-size>—Size of the data partition.

<factory>—Include only files shipped from factory in snapshot.

<media>—Media to snapshot to.

- compact-flash—Write snapshot to compact flash.
- hard-disk—Write snapshot to hard disk.
- internal—Write snapshot to internal flash.
- removable-compact-flash—Write snapshot to removable compact flash.
- usb—Write snapshot to device connected to USB port.

<partition>—Partition the media.

<root-size>—Size of the root partition.

<swap-size>—Size of the swap partition.

<request-snmp-spoof-trap>

Usage

```
<rpc>
  <request-snmp-spoof-trap>
    <trap>trap</trap>     <!-- mandatory -->
    <variable-bindings>variable-bindings</variable-bindings>
  </request-snmp-spoof-trap>
</rpc>
```

Description Generate artificial SNMP notification.

Contents <trap>—The name of the trap to spoof.

<variable-bindings>—The list of variables & values to include in the trap.

<request-system-storage-cleanup>

Usage

```
<rpc>
  <request-system-storage-cleanup>
    <dry-run/>
  </request-system-storage-cleanup>
</rpc>
```

Description Clean up temporary files and rotate logs.

Contents <dry-run>—Only list the cleanup candidates, do not remove them.

<request-traceroute-ethernet>

Usage

```
<rpc>
  <request-traceroute-ethernet>
    <ttl>ttl</ttl>
    <wait>seconds</wait>
    <maintenance-domain>maintenance-domain</maintenance-domain>     <!--
mandatory -->
    <maintenance-association>maintenance-association</maintenance-association>
<!-- mandatory -->
    <host>host</host>
    <mep>mep</mep>
  </request-traceroute-ethernet>
</rpc>
```

Description Trace route to an ethernet host by unicast mac address.

Contents <host>—MAC address of remote host in xx:xx:xx:xx:xx:xx format.

<maintenance-association>—Name of maintenance association.

<maintenance-domain>—Name of maintenance domain.

<mep>—MEP identifier of remote host.

<ttl>—Maximum time-to-live value.

<wait>—Number of seconds to wait for response.

<set-logical-router>

Usage

```
<rpc>
  <set-logical-router>
    <logical-system>logical-system</logical-system>     <!-- mandatory -->
  </set-logical-router>
</rpc>
```

Description Set default logical system.

Contents <logical-system>—Name of logical system.

<traceroute>

Usage

```
<rpc>
  <traceroute>
    <gateway>gateway</gateway>
    <ttl>ttl</ttl>
    <wait>seconds</wait>
    <no-resolve/>
    <source>source</source>
    <tos>tos</tos>
    <as-number-lookup/>
    <bypass-routing/>
    <inet/>
    <inet6/>
    <interface>interface</interface>
    <routing-instance>routing-instance</routing-instance>
    <host>host</host>     <!-- mandatory -->
    <logical-system>logical-system</logical-system>
  </traceroute>
</rpc>
```

Description Trace route to remote host.

Contents

<as-number-lookup>—Look up AS numbers for each hop.

<bypass-routing>—Bypass routing table, use specified interface.

<gateway>—Address of router gateway to route through.

<host>—Hostname or address of remote host.

<inet>—Force traceroute to IPv4 destination.

<inet6>—Force traceroute to IPv6 destination.

<interface>—Name of interface to use for outgoing traffic.

<logical-system>—Name of logical system.

<no-resolve>—Don't attempt to print addresses symbolically.

<routing-instance>—Name of routing instance for traceroute attempt.

<source>—Source address to use in outgoing traceroute packets.

<tos>—IP type-of-service field (IPv4).

<ttl>—IP maximum time-to-live value (or IPv6 maximum hop-limit value).

<wait>—Number of seconds to wait for response.

<walk-snmp-object>

Usage

```
<rpc>
  <walk-snmp-object>
    <decimal/>
    <ascii/>
    <snmp-object-name>snmp-object-name</snmp-object-name>     <!-- mandatory -->
  </walk-snmp-object>
</rpc>
```

Description Walk SNMP object values.

Contents <ascii>—Convert string indices to 'ascii-keys' representation.

<decimal>—Decimal format (default).

<snmp-object-name>—Requested SNMP object names.

Chapter 3

Summary of Operational Response Tag Elements

This chapter lists the Extensible Markup Language (XML) tag elements in the JUNOS XML application programming interface (API) that contain operational information. The JUNOScript and NETCONF servers return them in response to requests from client applications. The tags are divided into the following sections and listed in alphabetical order within each section.

- <output> Tag Element on page 375
- Summary of Accounting Response Tags on page 376
- Summary of Adaptive Services Response Tags on page 405
- Summary of Alarm Response Tags on page 530
- Summary of ANCP Response Tags on page 533
- Summary of APPIDD Response Tags on page 547
- Summary of APS Response Tags on page 551
- Summary of ARP Response Tags on page 555
- Summary of Authentication Response Tags on page 558
- Summary of Autoinstallation Response Tags on page 573
- Summary of BFD Response Tags on page 575
- Summary of Connectivity Fault Management Response Tags on page 582
- Summary of Chassis Response Tags on page 623
- Summary of Class-of-Service Response Tags on page 698
- Summary of Database Replication Response Tags on page 750
- Summary of Data Link Switching Response Tags on page 752
- Summary of DHCP Response Tags on page 764

- Summary of DHCP Relay Response Tags on page 776
- Summary of DHCP Server Response Tags on page 782
- Summary of Dialer Response Tags on page 788
- Summary of Diameter Response Tags on page 795
- Summary of Dynamic Configuration Response Tags on page 804
- Summary of Dynamic Flow Capture Response Tags on page 818
- Summary of Firewall Filter Response Tags on page 826
- Summary of GRES Test Point Tags on page 834
- Summary of Graceful Switchover Response Tags on page 831
- Summary of IDP Response Tags on page 836
- Summary of Interface Metadata Response Tags on page 861
- Summary of Interface Response Tags on page 863
- Summary of IPSec Response Tags on page 1042
- Summary of IPv6 Neighbor Discovery Response Tags on page 1078
- Summary of ISDN Response Tags on page 1080
- Summary of JNX Example Response Tags on page 1089
- Summary of JDiameterd Response Tags on page 1091
- Summary of J20 GGSN Response Tags on page 1149
- Summary of LACP Response Tags on page 1201
- Summary of Layer 2 Address Learning Response Tags on page 1206
- Summary of Layer 2 Control Protocol Response Tags on page 1230
- Summary of License Response Tags on page 1262
- Summary of Licensed Feature Metadata Response Tags on page 1269
- Summary of Link-Fault Management Response Tags on page 1271
- Summary of MIP Response Tags on page 1297
- Summary of MSP Response Tags on page 1312
- Summary of MPLS OAM ResponseTags on page 1313
- Summary of Passive Monitoring Interfaces Response Tags on page 1320

- Summary of Pragmatic General Multicast Response Tags on page 1327
- Summary of Periodic Packet Management Response Tags on page 1335
- Summary of PPP Response Tags on page 1341
- Summary of PPP over Ethernet Response Tags on page 1356
- Summary of Probe-Test Response Tags on page 1362
- Summary of Product Metadata Response Tags on page 1377
- Summary of Redundant Interfaces Response Tags on page 1380
- Summary of Resource Cleanup Response Tags on page 1382
- Summary of Routing and Forwarding Table Response Tags on page 1385
- Summary of Routing Protocols Response Tags on page 1392
- Summary of RPM Response Tags on page 1789
- Summary of SDX Response Tags on page 1806
- Summary of Services Accounting Response Tags on page 1817
- Summary of Services Flow Collector Response Tags on page 1808
- Summary of Secpolinfo Resource Utilization Response Tags on page 1816
- Summary of Services Accounting Response Tags on page 1817
- Summary of SMPL Respone Tags on page 1831
- Summary of Shutdown Response Tags on page 1838
- Summary of SNMP Response Tags on page 1839
- Summary of Static Subscribers Response Tags on page 1865
- Summary of Statistics Response Tags on page 1867
- Summary of Subscribers Response Tags on page 1928
- Summary of System Process Response Tags on page 1931
- Summary of Telephony Gateway Module Response Tags on page 1945
- Summary of System Process Response Tags on page 1931
- Summary of Virtual Router Redundancy Protocol Response Tags on page 1950
- Summary of X.509 Certificate Response Tags on page 1964

For information about the notation used in this chapter, see Table 2 on page lxxx. To review the document type definitions (DTDs) for these tags, see "JUNOS XML Document Type Definitions" on page 1973.

<output> Tag Element

Usage

```
<!-- when returned by the JUNOScript server -->
<rpc-reply xmlns:junos="URL">
  <output>response</output>
</rpc-reply>

<!-- when returned by the NETCONF server -->
<rpc-reply xmlns="URN">
  <output>response</output>
</rpc-reply>
]]>]]>
```

Description Contain a response to a client application request when the current version of the JUNOS XML API does not define a specific tag element for the response. The format of the contents is subject to change, so the client application must not rely on a particular format.

See Also <rpc-reply> in the *JUNOScript API Guide* or *NETCONF API Guide*

Summary of Accounting Response Tags

This section lists the JUNOS XML tags that contain operational information about accounting records. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-accounting. To review the DTD for the tags, see .“DTD for Accounting Response Tags” on page 1977.

<accounting-profile-columns>

Usage

```
<accounting-profile-information>
  <accounting-profile-columns>
    <column-label>column-label</column-label>
  </accounting-profile-columns>
</accounting-profile-information>
```

Description Name of each JUNOScript output tag that is included in records generated based on the profile.

Contents <column-label>—Name of an output tag that is included in records generated based on the profile.

<accounting-profile-filter>

Usage

```
<accounting-profile-information>
  <accounting-profile-filter>
    <filter-name>filter-name</filter-name>
    <next-scheduled-collection>next-scheduled-collection
                </next-scheduled-collection>
  </accounting-profile-filter>
</accounting-profile-information>
```

Description Name of each filter to which the profile is applied.

Contents <filter-name>—Name of the filter.

<next-scheduled-collection>—Local time at which statistics collection will next begin, in the format YYYY-MM-DD-hh:mm:ss (year, month, day, hour in 24-hour format, minute, second).

<accounting-profile-header>

Usage

```
<accounting-profile-information>
  <accounting-profile-header>
    <profile-name>profile-name</profile-name>
    <profile-type>profile-type</profile-type>
    <profile-interval>profile-interval</profile-interval>
    <profile-use-count>profile-use-count</profile-use-count>
    <filename>filename</filename>
    <filesize>filesize</filesize>
    <filenumber>filenumber</filenumber>
    <bytes-written>bytes-written</bytes-written>
    <transfer-interval>transfer-interval</transfer-interval>
    <next-transfer-time>next-transfer-time</next-transfer-time>
  </accounting-profile-header>
</accounting-profile-information>
```

Description Information from the accounting profile header.

Contents

<bytes-written>—Number of bytes of data written to the file between the start of the most recent collection interval and the time of the request for information about the profile.

<filename>—Name of the file in the /var/log directory to which records are written.

<filenumber>—Maximum number of rotating versions of the file in the /var/log directory (the active file plus compressed files containing earlier data).

<filesize>—Maximum number of bytes of data written to the active version of the file before the file is closed, and a new file opened. If the transfer interval expires first, the file might contain less data.

<next-transfer-time>—Date and time when the active file will next be closed and transferred to the configured archive site, in the format YYYY-MM-DD-hh:mm:ss (year, month, day, hour in 24-hour format, minute, second).

<profile-interval>—Frequency of statistics collection for each object sampled by the profile.

<profile-name>—Name of the accounting profile.

<profile-type>—Type of object to which the profile is applied.

<profile-use-count>—Number of objects to which this profile is applied (number of objects for which the statistics defined in this profile are collected).

<transfer-interval>—Frequency, in minutes, that the active file is closed and transferred to the configured archive site. The file is closed even if the maximum amount of data has not yet been written. As when the file is closed because the maximum size is reached, the contents of the active file are also compressed and copied to the first rotating file in the /var/log directory.

<accounting-profile-information>

Usage

```
<rpc-reply>
  <accounting-profile-information>
    <accounting-profile-header>...</accounting-profile-header>
    <accounting-profile-columns>...</accounting-profile-columns>
    <accounting-profile-interfaces>...</accounting-profile-interfaces>
    <accounting-profile-mib>...</accounting-profile-mib>
    <accounting-profile-filter>...</accounting-profile-filter>
  </accounting-profile-information>
</rpc-reply>
```

Description Information about an accounting profile.

Contents <accounting-profile-columns>—Name of each JUNOScript output tag that is included in records generated based on the profile.

<accounting-profile-filter>—Name of each filter to which the profile is applied.

<accounting-profile-header>—Information from the accounting profile header.

<accounting-profile-interfaces>—Name of each interface to which the profile is applied.

<accounting-profile-mib>—Name of each Management Information Base to which the profile is applied.

<accounting-profile-interfaces>

Usage

```
<accounting-profile-information>
  <accounting-profile-interfaces>
    <interface-name>interface-name</interface-name>
    <next-scheduled-collection>next-scheduled-collection
                </next-scheduled-collection>
  </accounting-profile-interfaces>
</accounting-profile-information>
```

Description Name of each interface to which the profile is applied.

Contents <interface-name>—Name of the interface.

<next-scheduled-collection>—Local time at which statistics collection will next begin, in the format YYYY-MM-DD-hh:mm:ss (year, month, day, hour in 24-hour format, minute, second).

<accounting-profile-mib>

Usage

```
<accounting-profile-information>
  <accounting-profile-mib>
    <mib-name>mib-name</mib-name>
    <next-scheduled-collection>next-scheduled-collection
                </next-scheduled-collection>
  </accounting-profile-mib>
</accounting-profile-information>
```

Description Name of each Management Information Base to which the profile is applied.

Contents <mib-name>—Name of a MIB.

<next-scheduled-collection>—Local time at which statistics collection will next begin, in the format YYYY-MM-DD-hh:mm:ss (year, month, day, hour in 24-hour format, minute, second).

<accounting-record-information>

Usage

```
<rpc-reply>
  <accounting-record-information>
    <interface-accounting-statistics>...</interface-accounting-statistics>
    <routing-engine-accounting-statistics>...
                </routing-engine-accounting-statistics>
    <filter-accounting-statistics>...</filter-accounting-statistics>
    <cu-accounting-statistics>...</cu-accounting-statistics>
    <mib-accounting-statistics>...</mib-accounting-statistics>
    <file-accounting-records>...</file-accounting-records>
  </accounting-record-information>
</rpc-reply>
```

Description Information in a record that was generated based on an accounting profile.

Contents <cu-accounting-statistics>—Information from one or more records that were generated based on a destination class usage or source class usage profile.

<file-accounting-records>—Records from an accounting file.

<filter-accounting-statistics>—Information from one or more records that were generated based on a filter profile.

<interface-accounting-statistics>—Information from one or more records that were generated based on an interface profile.

<mib-accounting-statistics>—Information from one or more records that were generated based on a Management Information Base profile.

<routing-engine-accounting-statistics>—Information from one or more records that were generated based on a Routing Engine profile.

<cu-accounting-record>

Usage

```
<cu-accounting-statistics>
  <cu-accounting-record>
    <profile-layout>profile-layout</profile-layout>
    <epoch-timestamp>epoch-timestamp</epoch-timestamp>
    <utc-timestamp>utc-timestamp</utc-timestamp>
    <interface-name>interface-name</interface-name>
    <address-family>address-family</address-family>
    <destination-class-name>destination-class-name</destination-class-name>
    <source-class-name>source-class-name</source-class-name>
    <counter-name>counter-name</counter-name>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </cu-accounting-record>
</cu-accounting-statistics>
```

Description Information in a record that was generated based on a destination class usage or source class usage profile.

Contents

<address-family>—Interface family configured on the interface.

<byte-count>—Number of bytes processed by the counter.

<counter-name>—Name of the counter.

<destination-class-name>—Name of the destination class.

<epoch-timestamp>—Time at which the record was written, expressed as local time.

<interface-name>—Name of the interface.

<packet-count>—Number of packets processed by the counter.

<profile-layout>—No documentation is available yet.

<source-class-name>—Name of the source class.

<utc-timestamp>—Time at which the record was written, expressed as Coordinated Universal Time.

<cu-accounting-statistics>

Usage

```
<accounting-record-information>
  <cu-accounting-statistics>
    <cu-accounting-record>...</cu-accounting-record>
  </cu-accounting-statistics>
</accounting-record-information>
```

Description Information from one or more records that were generated based on a destination class usage or source class usage profile.

Contents <cu-accounting-record>—Information in a record that was generated based on a destination class usage or source class usage profile.

<file-accounting-record>

Usage

```
<file-accounting-records>
  <file-accounting-record>
    <profile-layout>profile-layout</profile-layout>
    <epoch-timestamp>epoch-timestamp</epoch-timestamp>
  </file-accounting-record>
</file-accounting-records>
```

Description Record from an accounting file.

Contents <epoch-timestamp>—Time at which the record was written, expressed as local time.

<profile-layout>—No documentation is available yet.

<file-accounting-records>

Usage

```
<accounting-record-information>
  <file-accounting-records>
    <file-accounting-record>...</file-accounting-record>
  </file-accounting-records>
</accounting-record-information>
```

Description Records from an accounting file.

Contents <file-accounting-record>—Record from an accounting file.

<filter-accounting-record>

Usage
```
<filter-accounting-statistics>
  <filter-accounting-record>
    <profile-layout>profile-layout</profile-layout>
    <epoch-timestamp>epoch-timestamp</epoch-timestamp>
    <utc-timestamp>utc-timestamp</utc-timestamp>
    <interfaces>interfaces</interfaces>
    <filter-name>filter-name</filter-name>
    <counter-name>counter-name</counter-name>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </filter-accounting-record>
</filter-accounting-statistics>
```

Description Information in a record that was generated based on a filter profile.

Contents <byte-count>—Number of bytes processed by the counter.

<counter-name>—Name of the counter.

<epoch-timestamp>—Time at which the record was written, expressed as local time.

<filter-name>—Name of the filter.

<interfaces>—Name of one or more interfaces for which the record was collected.

<packet-count>—Number of packets processed by the counter.

<profile-layout>—No documentation is available yet.

<utc-timestamp>—Time at which the record was written, expressed as Coordinated Universal Time.

<filter-accounting-statistics>

Usage
```
<accounting-record-information>
  <filter-accounting-statistics>
    <filter-accounting-record>...</filter-accounting-record>
  </filter-accounting-statistics>
</accounting-record-information>
```

Description Information from one or more records that were generated based on a filter profile.

Contents <filter-accounting-record>—Information in a record that was generated based on a filter profile.

<index>

Usage

```
<snmp-object>
  <index>
    <index-name>index-name</index-name>
    <index-value>index-value</index-value>
  </index>
</snmp-object>
```

Description No documentation is available yet.

Contents <index-name>—SNMP index name.

<index-value>—SNMP index value.

<interface-accounting-record>

Usage

```
<interface-accounting-statistics>
  <interface-accounting-record>
    <profile-layout>profile-layout</profile-layout>
    <epoch-timestamp>epoch-timestamp</epoch-timestamp>
    <utc-timestamp>utc-timestamp</utc-timestamp>
    <interface-name>interface-name</interface-name>
    <snmp-index>snmp-index</snmp-index>
    <input-bytes>input-bytes</input-bytes>
    <output-bytes>output-bytes</output-bytes>
    <input-packets>input-packets</input-packets>
    <output-packets>output-packets</output-packets>
    <input-unicast>input-unicast</input-unicast>
    <output-unicast>output-unicast</output-unicast>
    <input-multicast>input-multicast</input-multicast>
    <output-multicast>output-multicast</output-multicast>
    <input-errors>input-errors</input-errors>
    <output-errors>output-errors</output-errors>
    <no-proto>no-proto</no-proto>
    <rpf-check-bytes>rpf-check-bytes</rpf-check-bytes>
    <rpf-check-packets>rpf-check-packets</rpf-check-packets>
    <rpf-check6-bytes>rpf-check6-bytes</rpf-check6-bytes>
    <rpf-check6-packets>rpf-check6-packets</rpf-check6-packets>
  </interface-accounting-record>
</interface-accounting-statistics>
```

Description Information in a record that was generated based on an interface profile.

Contents <epoch-timestamp>—Time at which the record was written, expressed as local time.

<input-bytes>—Number of bytes received at the interface during the collection interval.

<input-errors>—Number of packets received at the interface during the collection interval that had errors (for example, frame checksum sequence errors, or an invalid header length).

<input-multicast>—Number of multicast packets received at the interface during the collection interval.

<input-packets>—Number of packets received at the interface during the collection interval.

<input-unicast>—Number of unicast packets received at the interface during the collection interval.

<interface-name>—Name of the interface.

<no-proto>—Number of packets that used an unsupported protocol.

<output-bytes>—Number of bytes sent from the interface during the collection interval.

<output-errors>—Number of packets scheduled to be sent from the interface during

the collection interval that were not sent because of error conditions (for example, congestion or interface outages).

<output-multicast>—Number of multicast packets sent from the interface during the collection interval.

<output-packets>—Number of packets sent from the interface during the collection interval.

<output-unicast>—Number of unicast packets sent from the interface during the collection interval.

<profile-layout>—No documentation is available yet.

<rpf-check-bytes>—Number of bytes in reverse-path-forwarding check packets for IPv4.

<rpf-check-packets>—Number of reverse-path-forwarding check packets for IPv4.

<rpf-check6-bytes>—Number of bytes in reverse-path-forwarding check packets for IPv6.

<rpf-check6-packets>—Number of reverse-path-forwarding check packets for IPv6.

<snmp-index>—Simple Network Management Protocol index of the object described in the record.

<utc-timestamp>—Time at which the record was written, expressed as Coordinated Universal Time.

<interface-accounting-statistics>

Usage

```
<accounting-record-information>
  <interface-accounting-statistics>
    <interface-accounting-record>...</interface-accounting-record>
  </interface-accounting-statistics>
</accounting-record-information>
```

Description Information from one or more records that were generated based on an interface profile.

Contents <interface-accounting-record>—Information in a record that was generated based on an interface profile.

<mib-accounting-record>

Usage
```
<mib-accounting-statistics>
  <mib-accounting-record>
    <profile>profile</profile>
    <epoch-timestamp>epoch-timestamp</epoch-timestamp>
    <utc-timestamp>utc-timestamp</utc-timestamp>
    <name>name</name>
    <object-value>object-value</object-value>
  </mib-accounting-record>
</mib-accounting-statistics>
```

Description Information in a record that was generated based on a Management Information Base profile.

Contents <epoch-timestamp>—Time at which the record was written, expressed as local time.

<name>—SNMP object name.

<object-value>—SNMP object value.

<profile>—Name of the MIB profile.

<utc-timestamp>—Time at which the record was written, expressed as Coordinated Universal Time.

<mib-accounting-statistics>

Usage
```
<accounting-record-information>
  <mib-accounting-statistics>
    <mib-accounting-record>...</mib-accounting-record>
  </mib-accounting-statistics>
</accounting-record-information>
```

Description Information from one or more records that were generated based on a Management Information Base profile.

Contents <mib-accounting-record>—Information in a record that was generated based on a Management Information Base profile.

<pfe>

Usage

```
<pfe-information>
  <pfe>
    <slot-index>slot-index</slot-index>
    <slot-type>slot-type</slot-type>
    <slot-state>slot-state</slot-state>
    <mgmt-state>mgmt-state</mgmt-state>
    <up-time>up-time</up-time>
  </pfe>
</pfe-information>
```

Description No documentation is available yet.

Contents <mgmt-state>—Management state.

<slot-index>—Slot index.

<slot-state>—Slot state.

<slot-type>—Packet Forwarding Engine component type.

<up-time>—Time since the slot is up.

<pfe-bfd-statistics-detail>

Usage

```
<pfe-statistics>
  <pfe-bfd-statistics-detail>
    <bfd-invalid-iif>bfd-invalid-iif</bfd-invalid-iif>
    <bfd-invalid-iff>bfd-invalid-iff</bfd-invalid-iff>
    <bfd-bad-checksum>bfd-bad-checksum</bfd-bad-checksum>
    <bfd-bad-options>bfd-bad-options</bfd-bad-options>
    <bfd-bad-length>bfd-bad-length</bfd-bad-length>
    <bfd-bad-udp-checksum>bfd-bad-udp-checksum</bfd-bad-udp-checksum>
    <bfd-bad-udp-length>bfd-bad-udp-length</bfd-bad-udp-length>
    <bfd-bad-udp-ports>bfd-bad-udp-ports</bfd-bad-udp-ports>
    <bfd-no-local-ifl>bfd-no-local-ifl</bfd-no-local-ifl>
    <bfd-bad-ifl-prefix-length>bfd-bad-ifl-prefix-length
                </bfd-bad-ifl-prefix-length>
    <bfd-rx-queue-overflow>bfd-rx-queue-overflow</bfd-rx-queue-overflow>
    <bfd-out-of-packets>bfd-out-of-packets</bfd-out-of-packets>
    <bfd-total-packets>bfd-total-packets</bfd-total-packets>
    <bfd-total-absorbed>bfd-total-absorbed</bfd-total-absorbed>
    <bfd-transmit-errors>bfd-transmit-errors</bfd-transmit-errors>
  </pfe-bfd-statistics-detail>
</pfe-statistics>
```

Description No documentation is available yet.

Contents

<bfd-bad-checksum>—Packets having incorrect checksum.

<bfd-bad-ifl-prefix-length>—Packets with logical interface prefix length mismatch.

<bfd-bad-length>—Packets having incorrect length.

<bfd-bad-options>—Packets having incorrect options.

<bfd-bad-udp-checksum>—Packets having incorrect udp checksum.

<bfd-bad-udp-length>—Pckets having incorrect udp length.

<bfd-bad-udp-ports>—Packets with incorrect udp destination ports.

<bfd-invalid-iff>—Packets having an invalid address family .

<bfd-invalid-iif>—Packets with an invalid interface.

<bfd-no-local-ifl>—Packets with local logical interface lookup failures.

<bfd-out-of-packets>—Packet allocation failures.

<bfd-rx-queue-overflow>—Packet drops due to RX Queue overflow.

<bfd-total-absorbed>—Packets absorbed.

<bfd-total-packets>—Packets received.

<bfd-transmit-errors>—Packets failed to transmit.

<pfe-cfm-statistics-detail>

Usage

```
<pfe-statistics>
  <pfe-cfm-statistics-detail>
    <cfm-packets-received>cfm-packets-received</cfm-packets-received>
    <cfm-packets-sent-to-re>cfm-packets-sent-to-re</cfm-packets-sent-to-re>
    <cfm-packets-absorbed>cfm-packets-absorbed</cfm-packets-absorbed>

<cfm-packets-received-with-sequence-number>cfm-packets-received-with-sequence-num
ber
                    </cfm-packets-received-with-sequence-number>
    <cfm-packets-received-invalid-length>cfm-packets-received-invalid-length
                    </cfm-packets-received-invalid-length>
    <cfm-packets-transmitted>cfm-packets-transmitted</cfm-packets-transmitted>
    <cfm-packets-transmit-error>cfm-packets-transmit-error
                    </cfm-packets-transmit-error>
    <cfm-packets-dropped>cfm-packets-dropped</cfm-packets-dropped>
  </pfe-cfm-statistics-detail>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <cfm-packets-absorbed>—Packets absorbed.

<cfm-packets-dropped>—Packets dropped on pfe.

<cfm-packets-received>—Total packets received on pfe.

<cfm-packets-received-invalid-length>—Packets received with invalid length.

<cfm-packets-received-with-sequence-number>—Packets received with sequence number.

<cfm-packets-sent-to-re>—Packets send to RE.

<cfm-packets-transmit-error>—Packets failed to transmit.

<cfm-packets-transmitted>—Total packets transmitted.

<pfe-chip-statistics>

Usage

```
<pfe-statistics>
  <pfe-chip-statistics>
    <input-checksum>input-checksum</input-checksum>
    <output-mtu>output-mtu</output-mtu>
  </pfe-chip-statistics>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <input-checksum>—Packets having input checksum error.

<output-mtu>—Packets having output mtu error.

<pfe-cpu-stats>

Usage

```
<pfe-statistics>
  <pfe-cpu-stats>
    <pfe-queue-counters>...</pfe-queue-counters>
  </pfe-cpu-stats>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <pfe-queue-counters>—Queue counter statistics.

<pfe-hardware-discard-statistics>

Usage

```
<pfe-statistics>
  <pfe-hardware-discard-statistics>
    <timeout-discard>timeout-discard</timeout-discard>
    <truncated-key-discard>truncated-key-discard</truncated-key-discard>
    <bits-to-test-discard>bits-to-test-discard</bits-to-test-discard>
    <data-error-discard>data-error-discard</data-error-discard>
    <stack-underflow-discard>stack-underflow-discard</stack-underflow-discard>
    <stack-overflow-discard>stack-overflow-discard</stack-overflow-discard>
    <bad-route-discard>bad-route-discard</bad-route-discard>
    <nexthop-discard>nexthop-discard</nexthop-discard>
    <invalid-iif-discard>invalid-iif-discard</invalid-iif-discard>
    <info-cell-discard>info-cell-discard</info-cell-discard>
    <fabric-discard>fabric-discard</fabric-discard>
  </pfe-hardware-discard-statistics>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <bad-route-discard>—Packets discarded because of bad route.

<bits-to-test-discard>—Packets failing bit-to test.

<data-error-discard>—Packets with data errors.

<fabric-discard>—Number of packets discarded by the fabric.

<info-cell-discard>—Number of discarded info-cells.

<invalid-iif-discard>—Packets coming in through an invalid interface.

<nexthop-discard>—Packets discarded because of an extended or illegal nexthop.

<stack-overflow-discard>—Packets discarded because of stack overflow.

<stack-underflow-discard>—Packets discarded because of stack underflow.

<timeout-discard>—Packets discarded because of a timeout.

<truncated-key-discard>—Truncated key packets.

<pfe-information>

Usage

```
<rpc-reply>
  <pfe-information>
    <pfe>...</pfe>
  </pfe-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pfe>—No documentation is available yet.

<pfe-lfm-statistics-detail>

Usage

```
<pfe-statistics>
  <pfe-lfm-statistics-detail>
    <lfm-packets-received>lfm-packets-received</lfm-packets-received>
    <lfm-packets-sent-to-re>lfm-packets-sent-to-re</lfm-packets-sent-to-re>
    <lfm-packets-absorbed>lfm-packets-absorbed</lfm-packets-absorbed>
    <lfm-packets-transmitted>lfm-packets-transmitted</lfm-packets-transmitted>
    <lfm-packets-transmit-error>lfm-packets-transmit-error
                </lfm-packets-transmit-error>
    <lfm-packets-dropped>lfm-packets-dropped</lfm-packets-dropped>
  </pfe-lfm-statistics-detail>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <lfm-packets-absorbed>—Packets absorbed.

<lfm-packets-dropped>—Packets dropped on pfe.

<lfm-packets-received>—Total packets received on pfe.

<lfm-packets-sent-to-re>—Packets send to RE.

<lfm-packets-transmit-error>—Packets failed to transmit.

<lfm-packets-transmitted>—Total packets transmitted.

<pfe-local-protocol-statistics>

Usage

```
<pfe-statistics>
  <pfe-local-protocol-statistics>
    <hdlc-keepalive-count>hdlc-keepalive-count</hdlc-keepalive-count>
    <atm-oam-count>atm-oam-count</atm-oam-count>
    <fr-lmi-count>fr-lmi-count</fr-lmi-count>
    <ppp-lcp-ncp-count>ppp-lcp-ncp-count</ppp-lcp-ncp-count>
    <ospf-hello-count>ospf-hello-count</ospf-hello-count>
    <ospf3-hello-count>ospf3-hello-count</ospf3-hello-count>
    <rsvp-hello-count>rsvp-hello-count</rsvp-hello-count>
    <ldp-hello-count>ldp-hello-count</ldp-hello-count>
    <bfd-count>bfd-count</bfd-count>
    <isis-iih-count>isis-iih-count</isis-iih-count>
    <lacp-count>lacp-count</lacp-count>
    <arp-count>arp-count</arp-count>
    <ether-oam-count>ether-oam-count</ether-oam-count>
    <unknown-count>unknown-count</unknown-count>
  </pfe-local-protocol-statistics>
</pfe-statistics>
```

Description No documentation is available yet.

Contents

<arp-count>—ARP packet count.

<atm-oam-count>—ATM OAM packet count.

<bfd-count>—BFD packets.

<ether-oam-count>—ETHER OAM packet count.

<fr-lmi-count>—Frame Relay LMI packet count.

<hdlc-keepalive-count>—HDLC keepalive packet count.

<isis-iih-count>—IS-IS IIH packets.

<lacp-count>—LACP packet count.

<ldp-hello-count>—LDP hello packets.

<ospf-hello-count>—OSPF hello packets.

<ospf3-hello-count>—OSPF3 hello packets.

<ppp-lcp-ncp-count>—PPP LCP/NCP packet count.

<rsvp-hello-count>—RSVP hello packets.

<unknown-count>—Unknown packet count.

<pfe-local-traffic-statistics>

Usage

```
<pfe-statistics>
  <pfe-local-traffic-statistics>
    <pfe-input-packets>pfe-input-packets</pfe-input-packets>
    <pfe-output-packets>pfe-output-packets</pfe-output-packets>
    <software-input-control-drops>software-input-control-drops
            </software-input-control-drops>
    <software-input-high-drops>software-input-high-drops
            </software-input-high-drops>
    <software-input-medium-drops>software-input-medium-drops
            </software-input-medium-drops>
    <software-input-low-drops>software-input-low-drops</software-input-low-drops>
    <software-output-low-drops>software-output-low-drops
            </software-output-low-drops>
    <hardware-input-drops>hardware-input-drops</hardware-input-drops>
  </pfe-local-traffic-statistics>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <hardware-input-drops>—Low-priority packets discarded by hardware.

<pfe-input-packets>—Packet Forwarding Engine input packets.

<pfe-output-packets>—Packet Forwarding Engine output packets.

<software-input-control-drops>—Drop count of control-priority packets received from host.

<software-input-high-drops>—Drop count of high-priority packets received from host.

<software-input-low-drops>—Drop count of low-priority packets received from host.

<software-input-medium-drops>—Drop count of medium-priority packets received from host.

<software-output-low-drops>—Drop count of low-priority packets sent to host.

<pfe-multicast-stats>

Usage

```
<pfe-statistics>
  <pfe-multicast-stats>
    <pfe-queue-counters>...</pfe-queue-counters>
  </pfe-multicast-stats>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <pfe-queue-counters>—Queue counter statistics.

<pfe-queue>

Usage

```
<pfe-queue-counters>
  <pfe-queue>
    <number>number</number>
    <forwarding-class-name>forwarding-class-name</forwarding-class-name>
    <queued-packets>queued-packets</queued-packets>
    <queued-packets-na>queued-packets-na</queued-packets-na>
    <queued-bytes-na>queued-bytes-na</queued-bytes-na>
    <queued-bytes>queued-bytes</queued-bytes>
    <queued-packets-rate>queued-packets-rate</queued-packets-rate>
    <queued-bytes-rate>queued-bytes-rate</queued-bytes-rate>
    <trans-packets>trans-packets</trans-packets>
    <trans-bytes>trans-bytes</trans-bytes>
    <trans-packets-rate>trans-packets-rate</trans-packets-rate>
    <trans-bytes-rate>trans-bytes-rate</trans-bytes-rate>
    <tail-drop-packets>tail-drop-packets</tail-drop-packets>
    <tail-drop-packets-rate>tail-drop-packets-rate</tail-drop-packets-rate>
    <tail-drop-packets-na>tail-drop-packets-na</tail-drop-packets-na>
    <rate-limit-drop-packets>rate-limit-drop-packets</rate-limit-drop-packets>
    <rate-limit-drop-packets-rate>rate-limit-drop-packets-rate
            </rate-limit-drop-packets-rate>
    <rate-limit-drop-packets-na>rate-limit-drop-packets-na
            </rate-limit-drop-packets-na>
    <rate-limit-drop-bytes>rate-limit-drop-bytes</rate-limit-drop-bytes>
    <rate-limit-drop-bytes-rate>rate-limit-drop-bytes-rate
            </rate-limit-drop-bytes-rate>
    <rate-limit-drop-bytes-na>rate-limit-drop-bytes-na</rate-limit-drop-bytes-na>
    <red-packets-na>red-packets-na</red-packets-na>
    <red-packets>red-packets</red-packets>
    <red-bytes-na>red-bytes-na</red-bytes-na>
    <red-bytes>red-bytes</red-bytes>
    <red-packets-rate>red-packets-rate</red-packets-rate>
    <red-bytes-rate>red-bytes-rate</red-bytes-rate>
    <red-packets-ln>red-packets-ln</red-packets-ln>
    <red-bytes-ln>red-bytes-ln</red-bytes-ln>
    <red-packets-rate-ln>red-packets-rate-ln</red-packets-rate-ln>
    <red-bytes-rate-ln>red-bytes-rate-ln</red-bytes-rate-ln>
    <red-packets-lt>red-packets-lt</red-packets-lt>
    <red-bytes-lt>red-bytes-lt</red-bytes-lt>
    <red-packets-rate-lt>red-packets-rate-lt</red-packets-rate-lt>
    <red-bytes-rate-lt>red-bytes-rate-lt</red-bytes-rate-lt>
    <red-packets-ht>red-packets-ht</red-packets-ht>
    <red-bytes-ht>red-bytes-ht</red-bytes-ht>
    <red-packets-rate-ht>red-packets-rate-ht</red-packets-rate-ht>
    <red-bytes-rate-ht>red-bytes-rate-ht</red-bytes-rate-ht>
    <red-packets-hn>red-packets-hn</red-packets-hn>
    <red-bytes-hn>red-bytes-hn</red-bytes-hn>
    <red-packets-rate-hn>red-packets-rate-hn</red-packets-rate-hn>
    <red-bytes-rate-hn>red-bytes-rate-hn</red-bytes-rate-hn>
    <red-packets-low>red-packets-low</red-packets-low>
    <red-bytes-low>red-bytes-low</red-bytes-low>
    <red-packets-rate-low>red-packets-rate-low</red-packets-rate-low>
    <red-bytes-rate-low>red-bytes-rate-low</red-bytes-rate-low>
```

```
    <red-packets-medium-low>red-packets-medium-low</red-packets-medium-low>
    <red-bytes-medium-low>red-bytes-medium-low</red-bytes-medium-low>
    <red-packets-rate-medium-low>red-packets-rate-medium-low
                </red-packets-rate-medium-low>
    <red-bytes-rate-medium-low>red-bytes-rate-medium-low
                </red-bytes-rate-medium-low>
    <red-packets-medium-high>red-packets-medium-high</red-packets-medium-high>
    <red-bytes-medium-high>red-bytes-medium-high</red-bytes-medium-high>
    <red-packets-rate-medium-high>red-packets-rate-medium-high
                </red-packets-rate-medium-high>
    <red-bytes-rate-medium-high>red-bytes-rate-medium-high
                </red-bytes-rate-medium-high>
    <red-packets-medium>red-packets-medium</red-packets-medium>
    <red-bytes-medium>red-bytes-medium</red-bytes-medium>
    <red-packets-rate-medium>red-packets-rate-medium</red-packets-rate-medium>
    <red-bytes-rate-medium>red-bytes-rate-medium</red-bytes-rate-medium>
    <red-packets-high>red-packets-high</red-packets-high>
    <red-bytes-high>red-bytes-high</red-bytes-high>
    <red-packets-rate-high>red-packets-rate-high</red-packets-rate-high>
    <red-bytes-rate-high>red-bytes-rate-high</red-bytes-rate-high>
  </pfe-queue>
</pfe-queue-counters>
```

Description Counters for a single queue.

Contents <forwarding-class-name>—Forwarding class name associated with queue.

<number>—Queue number.

<queued-bytes>—Queued bytes count.

<queued-bytes-na>—Queued bytes not available.

<queued-bytes-rate>—Rate at which bytes are queued.

<queued-packets>—Queued packet count.

<queued-packets-na>—Queued packets not available.

<queued-packets-rate>—Rate at which packets are queued.

<rate-limit-drop-bytes>—Number of bytes dropped at the tail of the queue.

<rate-limit-drop-bytes-na>—Number of bytes dropped due to tail drop not available.

<rate-limit-drop-bytes-rate>—Rate at which bytes are dropped at the tail of the queue.

<rate-limit-drop-packets>—Number of packets dropped by rate-limit for the queue.

<rate-limit-drop-packets-na>—Number of packets dropped due to rate-limit drop not available.

<rate-limit-drop-packets-rate>—Rate at which packets are dropped by rate-limit for the queue.

<red-bytes>—Number of bytes dropped due to RED.

<red-bytes-high>—Number of RED dropped high-loss bytes.

<red-bytes-hn>—Number of RED dropped high-loss, non-TCP bytes.

<red-bytes-ht>—Number of RED dropped high-loss, TCP bytes.

<red-bytes-ln>—Number of RED dropped low-loss, non-TCP bytes.

<red-bytes-low>—Number of RED dropped low-loss bytes.

<red-bytes-lt>—Number of RED dropped low-loss, TCP bytes.

<red-bytes-medium>—Number of RED dropped medium-loss bytes.

<red-bytes-medium-high>—Number of RED dropped medium-high-loss bytes.

<red-bytes-medium-low>—Number of RED dropped medium-low-loss bytes.

<red-bytes-na>—Number of bytes dropped due to RED not available.

<red-bytes-rate>—Rate at which bytes are dropped due to RED.

<red-bytes-rate-high>—RED drop rate for high-loss bytes.

<red-bytes-rate-hn>—RED drop rate for high-loss, non-TCP bytes.

<red-bytes-rate-ht>—RED drop rate for high-loss, TCP bytes.

<red-bytes-rate-ln>—RED drop rate for low-loss, non-TCP bytes.

<red-bytes-rate-low>—RED drop rate for low-loss bytes.

<red-bytes-rate-lt>—RED drop rate for low-loss, TCP bytes.

<red-bytes-rate-medium>—RED drop rate for medium-loss bytes.

<red-bytes-rate-medium-high>—RED drop rate for medium-high-loss bytes.

<red-bytes-rate-medium-low>—RED drop rate for medium-low-loss bytes.

<red-packets>—Number of packets dropped due to RED.

<red-packets-high>—Number of RED dropped high-loss packets.

<red-packets-hn>—Number of RED dropped high-loss, non-TCP packets.

<red-packets-ht>—Number of RED dropped high-loss, TCP packets.

<red-packets-ln>—Number of RED dropped low-loss, non-TCP packets.

<red-packets-low>—Number of RED dropped low-loss packets.

<red-packets-lt>—Number of RED dropped of low-loss, TCP packets.

<red-packets-medium>—Number of RED dropped medium-loss packets.

<red-packets-medium-high>—Number of RED dropped medium-high-loss packets.

<red-packets-medium-low>—Number of RED dropped medium-low-loss packets.

<red-packets-na>—Number of packets dropped due to RED not available.

<red-packets-rate>—Rate at which packets are dropped due to RED.

<red-packets-rate-high>—RED drop rate for high-loss packets.

<red-packets-rate-hn>—RED drop rate for high-loss, non-TCP packets.

<red-packets-rate-ht>—RED drop rate for high-loss, TCP packets.

<red-packets-rate-ln>—RED drop rate for low-loss, non-TCP packets.

<red-packets-rate-low>—RED drop rate for low-loss packets.

<red-packets-rate-lt>—RED drop rate for low-loss, TCP packets.

<red-packets-rate-medium>—RED drop rate for medium-loss packets.

<red-packets-rate-medium-high>—RED drop rate for medium-high-loss packets.

<red-packets-rate-medium-low>—RED drop rate for medium-low-loss packets.

<tail-drop-packets>—Number of packets dropped at the tail of the queue.

<tail-drop-packets-na>—Number of packets dropped due to tail drop not available.

<tail-drop-packets-rate>—Rate at which packets are dropped at tail of queue.

<trans-bytes>—Total number of transmitted bytes.

<trans-bytes-rate>—Rate at which bytes are transmitted.

<trans-packets>—Total number of transmitted packets.

<trans-packets-rate>—Rate at which packets are transmitted.

<pfe-queue-counters>

Usage

```
<pfe-multicast-stats | pfe-cpu-stats | pfe-tail-drop-statistics | pfe-total-tail-drop>
  <pfe-queue-counters>
    <pfe-queue>...</pfe-queue>
  </pfe-queue-counters>
</pfe-multicast-stats | pfe-cpu-stats | pfe-tail-drop-statistics | pfe-total-tail-drop>
```

Description Queue counter statistics.

Contents <pfe-queue>—Counters for a single queue.

<pfe-resource>

Usage
```
<rpc-reply>
  <pfe-resource>
    <pfe-resource-usage>...</pfe-resource-usage>
  </pfe-resource>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pfe-resource-usage>—No documentation is available yet.

<pfe-resource-general-information>

Usage
```
<pfe-resource-usage>
  <pfe-resource-general-information>
    <pfe-description>pfe-description</pfe-description>
    <pfe-instance>pfe-instance</pfe-instance>
    <pfe-forwarding-module-name>pfe-forwarding-module-name
                </pfe-forwarding-module-name>
    <pfe-forwarding-module-instance>pfe-forwarding-module-instance
                </pfe-forwarding-module-instance>
    <pfe-resource-usage-details>...</pfe-resource-usage-details>
  </pfe-resource-general-information>
</pfe-resource-usage>
```

Description No documentation is available yet.

Contents <pfe-description>—Packet Forwarding Engine description.

<pfe-forwarding-module-instance>—Packet Forwarding Engine module instance.

<pfe-forwarding-module-name>—Packet Forwarding Engine module name.

<pfe-instance>—Packet forwarding Engine instance.

<pfe-resource-usage-details>—No documentation is available yet.

<pfe-resource-usage>

Usage

```
<pfe-resource>
  <pfe-resource-usage>
    <pfe-fpc-instance>pfe-fpc-instance</pfe-fpc-instance>
    <pfe-resource-usage-legend>pfe-resource-usage-legend
                </pfe-resource-usage-legend>
    <pfe-resource-general-information>...</pfe-resource-general-information>
  </pfe-resource-usage>
</pfe-resource>
```

Description No documentation is available yet.

Contents <pfe-fpc-instance>—Fpc slot of the PFE.

<pfe-resource-general-information>—No documentation is available yet.

<pfe-resource-usage-legend>—Legend for any markings/highlighting.

<pfe-resource-usage-details>

Usage

```
<pfe-resource-general-information>
  <pfe-resource-usage-details>
    <pfe-resource-total>pfe-resource-total</pfe-resource-total>
    <pfe-resource-units>pfe-resource-units</pfe-resource-units>
    <pfe-resource-free>pfe-resource-free</pfe-resource-free>
    <pfe-resource-inuse>pfe-resource-inuse</pfe-resource-inuse>
    <pfe-resource-name>pfe-resource-name</pfe-resource-name>
    <pfe-resource-inuse-percent>pfe-resource-inuse-percent
                </pfe-resource-inuse-percent>
    <pfe-resource-highlight>pfe-resource-highlight</pfe-resource-highlight>
  </pfe-resource-usage-details>
</pfe-resource-general-information>
```

Description No documentation is available yet.

Contents <pfe-resource-free>—Packet Forwarding Engine free number of resources.

<pfe-resource-highlight>—Packet Forwarding Engine resource highlight symbols.

<pfe-resource-inuse>—Packet Forwarding Engine resources used for a partition.

<pfe-resource-inuse-percent>—Packet Forwarding Engine resource percent utilization.

<pfe-resource-name>—Packet Forwarding Engine resource name.

<pfe-resource-total>—Packet Forwarding Engine total number of a resource.

<pfe-resource-units>—Packet Forwarding Engine units for the resource.

<pfe-statistics>

Usage

```
<rpc-reply>
  <pfe-statistics>
    <pfe-multicast-stats>...</pfe-multicast-stats>
    <pfe-cpu-stats>...</pfe-cpu-stats>
    <pfe-tail-drop-statistics>...</pfe-tail-drop-statistics>
    <pfe-total-tail-drop>...</pfe-total-tail-drop>
    <pfe-traffic-statistics>...</pfe-traffic-statistics>
    <pfe-local-traffic-statistics>...</pfe-local-traffic-statistics>
    <pfe-local-protocol-statistics>...</pfe-local-protocol-statistics>
    <pfe-bfd-statistics-detail>...</pfe-bfd-statistics-detail>
    <pfe-cfm-statistics-detail>...</pfe-cfm-statistics-detail>
    <pfe-lfm-statistics-detail>...</pfe-lfm-statistics-detail>
    <pfe-hardware-discard-statistics>...</pfe-hardware-discard-statistics>
    <pfe-chip-statistics>...</pfe-chip-statistics>
  </pfe-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<pfe-bfd-statistics-detail>—No documentation is available yet.

<pfe-cfm-statistics-detail>—No documentation is available yet.

<pfe-chip-statistics>—No documentation is available yet.

<pfe-cpu-stats>—No documentation is available yet.

<pfe-hardware-discard-statistics>—No documentation is available yet.

<pfe-lfm-statistics-detail>—No documentation is available yet.

<pfe-local-protocol-statistics>—No documentation is available yet.

<pfe-local-traffic-statistics>—No documentation is available yet.

<pfe-multicast-stats>—No documentation is available yet.

<pfe-tail-drop-statistics>—No documentation is available yet.

<pfe-total-tail-drop>—No documentation is available yet.

<pfe-traffic-statistics>—No documentation is available yet.

<pfe-tail-drop-statistics>

Usage
```
<pfe-statistics>
  <pfe-tail-drop-statistics>
    <pfe-queue-counters>...</pfe-queue-counters>
  </pfe-tail-drop-statistics>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <pfe-queue-counters>—Queue counter statistics.

<pfe-total-tail-drop>

Usage
```
<pfe-statistics>
  <pfe-total-tail-drop>
    <pfe-queue-counters>...</pfe-queue-counters>
  </pfe-total-tail-drop>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <pfe-queue-counters>—Queue counter statistics.

<pfe-traffic-statistics>

Usage
```
<pfe-statistics>
  <pfe-traffic-statistics>
    <pfe-input-packets>pfe-input-packets</pfe-input-packets>
    <pfe-output-packets>pfe-output-packets</pfe-output-packets>
    <input-pps>input-pps</input-pps>
    <output-pps>output-pps</output-pps>
  </pfe-traffic-statistics>
</pfe-statistics>
```

Description No documentation is available yet.

Contents <input-pps>—Input packets (per second).

<output-pps>—Output packets (per second).

<pfe-input-packets>—Packet Forwarding Engine input packets.

<pfe-output-packets>—Packet Forwarding Engine output packets.

<routing-engine-accounting-record>

Usage

```
<routing-engine-accounting-statistics>
  <routing-engine-accounting-record>
    <profile-layout>profile-layout</profile-layout>
    <epoch-timestamp>epoch-timestamp</epoch-timestamp>
    <utc-timestamp>utc-timestamp</utc-timestamp>
    <hostname>hostname</hostname>
    <date-yyyymmdd>date-yyyymmdd</date-yyyymmdd>
    <timeofday-hhmmss>timeofday-hhmmss</timeofday-hhmmss>
    <uptime>uptime</uptime>
    <cpu1min>cpu1min</cpu1min>
    <cpu5min>cpu5min</cpu5min>
    <cpu15min>cpu15min</cpu15min>
    <memory-usage>memory-usage</memory-usage>
    <total-cpu-usage>total-cpu-usage</total-cpu-usage>
  </routing-engine-accounting-record>
</routing-engine-accounting-statistics>
```

Description Information in a record that was generated based on a Routing Engine profile.

Contents

<cpu15min>—The load average for the 15 minutes before the record was written (a damped time-dependent average based on the number of active jobs and jobs in the CPU run queue).

<cpu1min>—The load average for the minute before the record was written (a damped time-dependent average based on the number of active jobs and jobs in the CPU run queue).

<cpu5min>—The load average for the five minutes before the record was written (a damped time-dependent average based on the number of active jobs and jobs in the CPU run queue).

<date-yyyymmdd>—Current date on the Routing Engine, in the format YYYYMMDD (year, month, day).

<epoch-timestamp>—Time at which the record was written, expressed as local time.

<hostname>—Hostname of the Routing Engine.

<memory-usage>—Megabytes of RAM in use.

<profile-layout>—No documentation is available yet.

<timeofday-hhmmss>—Current time on the Routing Engine, in the format hhmmss (hour in 24-hour format, minute, second).

<total-cpu-usage>—Current CPU load, expressed as a percent.

<uptime>—Number of seconds since the Routing Engine last rebooted.

<utc-timestamp>—Time at which the record was written, expressed as Coordinated Universal Time.

<routing-engine-accounting-statistics>

Usage
```
<accounting-record-information>
  <routing-engine-accounting-statistics>
    <routing-engine-accounting-record>...</routing-engine-accounting-record>
  </routing-engine-accounting-statistics>
</accounting-record-information>
```

Description Information from one or more records that were generated based on a Routing Engine profile.

Contents <routing-engine-accounting-record>—Information in a record that was generated based on a Routing Engine profile.

<snmp-object>

Usage
```
<snmp-object-information>
  <snmp-object>
    <name>name</name>
    <index>...</index>
    <oid>oid</oid>
    <object-value>object-value</object-value>
    <object-value-type>object-value-type</object-value-type>
    <error>error</error>
  </snmp-object>
</snmp-object-information>
```

Description No documentation is available yet.

Contents <error>—SNMP object error.

<index>—No documentation is available yet.

<name>—SNMP object name.

<object-value>—SNMP object value.

<object-value-type>—No documentation is available yet.

<oid>—SNMP object identifier.

<snmp-object-information>

Usage

```
<rpc-reply>
  <snmp-object-information>
    <snmp-object>...</snmp-object>
    <snmp-request-error>...</snmp-request-error>
  </snmp-object-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <snmp-object>—No documentation is available yet.

<snmp-request-error>—No documentation is available yet.

<snmp-request-error>

Usage

```
<snmp-object-information>
  <snmp-request-error>
    <snmp-req-error-value>snmp-req-error-value</snmp-req-error-value>
  </snmp-request-error>
</snmp-object-information>
```

Description No documentation is available yet.

Contents <snmp-req-error-value>—SNMP request error.

Summary of Adaptive Services Response Tags

This section lists JUNOS XML tags that contain operational information about adaptive services interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-adaptive-services. To review the DTD for the tags, see "DTD for Adaptive Services Response Tags" on page 1989.

<alg-error-counters>

Usage

```
<sfw-stats-service-set-entry>
  <alg-error-counters>
    <alg-bootp-errors>alg-bootp-errors</alg-bootp-errors>
    <alg-dce-rpc-errors>alg-dce-rpc-errors</alg-dce-rpc-errors>
    <alg-dce-rpc-portmap-errors>alg-dce-rpc-portmap-errors
                </alg-dce-rpc-portmap-errors>
    <alg-dns-errors>alg-dns-errors</alg-dns-errors>
    <alg-exec-errors>alg-exec-errors</alg-exec-errors>
    <alg-ftp-errors>alg-ftp-errors</alg-ftp-errors>
    <alg-h323-errors>alg-h323-errors</alg-h323-errors>
    <alg-icmp-errors>alg-icmp-errors</alg-icmp-errors>
    <alg-iiop-errors>alg-iiop-errors</alg-iiop-errors>
    <alg-login-errors>alg-login-errors</alg-login-errors>
    <alg-netbios-errors>alg-netbios-errors</alg-netbios-errors>
    <alg-netshow-errors>alg-netshow-errors</alg-netshow-errors>
    <alg-realaudio-errors>alg-realaudio-errors</alg-realaudio-errors>
    <alg-rpc-errors>alg-rpc-errors</alg-rpc-errors>
    <alg-rpc-portmap-errors>alg-rpc-portmap-errors</alg-rpc-portmap-errors>
    <alg-rtsp-errors>alg-rtsp-errors</alg-rtsp-errors>
    <alg-shell-errors>alg-shell-errors</alg-shell-errors>
    <alg-sip-errors>alg-sip-errors</alg-sip-errors>
    <alg-snmp-errors>alg-snmp-errors</alg-snmp-errors>
    <alg-sqlnet-errors>alg-sqlnet-errors</alg-sqlnet-errors>
    <alg-tftp-errors>alg-tftp-errors</alg-tftp-errors>
    <alg-traceroute-errors>alg-traceroute-errors</alg-traceroute-errors>
  </alg-error-counters>
</sfw-stats-service-set-entry>
```

Description Extensive output of ALG processing errors.

Contents <alg-bootp-errors>—ALG BOOTP errors.

<alg-dce-rpc-errors>—ALG DCE-RPC errors.

<alg-dce-rpc-portmap-errors>—ALG DCE-RPC portmap errors.

<alg-dns-errors>—ALG DNS errors.

<alg-exec-errors>—ALG exec errors.

<alg-ftp-errors>—ALG FTP errors.

<alg-h323-errors>—ALG H323 errors.

<alg-icmp-errors>—ALG ICMP errors.

<alg-iiop-errors>—ALG IIOP errors.

<alg-login-errors>—ALG login errors.

<alg-netbios-errors>—ALG NetBIOS errors.

<alg-netshow-errors>—ALG NetShow errors.

<alg-realaudio-errors>—ALG Real Audio errors.

<alg-rpc-errors>—ALG RPC errors.

<alg-rpc-portmap-errors>—ALG RPC portmap errors.

<alg-rtsp-errors>—ALG Real-Time Streaming Protocol errors.

<alg-shell-errors>—ALG shell errors.

<alg-sip-errors>—ALG Session Initiation Protocol errors.

<alg-snmp-errors>—ALG SNMP errors.

<alg-sqlnet-errors>—ALG SQLNet errors.

<alg-tftp-errors>—ALG TFTP errors.

<alg-traceroute-errors>—ALG traceroute errors.

<base-root-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <base-root-entry>
    <brp_name>brp_name</brp_name>
    <brp_minimum>brp_minimum</brp_minimum>
    <brp_maximum>brp_maximum</brp_maximum>
    <brp_default>brp_default</brp_default>
  </base-root-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description Array of h248 base root properties.

Contents <brp_default>—Property's default value.

<brp_maximum>—Property's maximum range value.

<brp_minimum>—Property's minimum range value.

<brp_name>—Property's name.

<bsg-admission-control-details>

Usage
```
<bsg-statistics-admission-control>
  <bsg-admission-control-details>
    <bsg-cac-name>bsg-cac-name</bsg-cac-name>
    <bsg-admission-control-dialogs>...</bsg-admission-control-dialogs>
    <bsg-admission-control-transactions>...</bsg-admission-control-transactions>
  </bsg-admission-control-details>
</bsg-statistics-admission-control>
```

Description No documentation is available yet.

Contents <bsg-admission-control-dialogs>—No documentation is available yet.

<bsg-admission-control-transactions>—No documentation is available yet.

<bsg-cac-name>—No documentation is available yet.

<bsg-admission-control-dialogs>

Usage
```
<bsg-admission-control-details>
  <bsg-admission-control-dialogs>
    <bsg-admission-control-dialog-title>bsg-admission-control-dialog-title
                </bsg-admission-control-dialog-title>
    <bsg-admission-controlled-object>...</bsg-admission-controlled-object>
  </bsg-admission-control-dialogs>
</bsg-admission-control-details>
```

Description No documentation is available yet.

Contents <bsg-admission-control-dialog-title>—No documentation is available yet.

<bsg-admission-controlled-object>—No documentation is available yet.

<bsg-admission-control-transactions>

Usage
```
<bsg-admission-control-details>
  <bsg-admission-control-transactions>
    <bsg-admission-control-transaction-title>bsg-admission-control-transaction-title
                </bsg-admission-control-transaction-title>
    <bsg-admission-controlled-object>...</bsg-admission-controlled-object>
  </bsg-admission-control-transactions>
</bsg-admission-control-details>
```

Description No documentation is available yet.

Contents <bsg-admission-control-transaction-title>—No documentation is available yet.

<bsg-admission-controlled-object>—No documentation is available yet.

<bsg-admission-controlled-object>

Usage

```
<bsg-admission-control-dialogs | bsg-admission-control-transactions>
  <bsg-admission-controlled-object>
    <bsg-cac-active>bsg-cac-active</bsg-cac-active>

<bsg-cac-attempts-handled>bsg-cac-attempts-handled</bsg-cac-attempts-handled>
    <bsg-cac-attempts-rejected-concurrent>bsg-cac-attempts-rejected-concurrent
                </bsg-cac-attempts-rejected-concurrent>
    <bsg-cac-attempts-rejected-rate>bsg-cac-attempts-rejected-rate
                </bsg-cac-attempts-rejected-rate>
  </bsg-admission-controlled-object>
</bsg-admission-control-dialogs | bsg-admission-control-transactions>
```

Description No documentation is available yet.

Contents <bsg-cac-active>—No documentation is available yet.

<bsg-cac-attempts-handled>—Counts the attempts handled.

<bsg-cac-attempts-rejected-concurrent>—Counts the attempts rejected due to maximum concurrent violation.

<bsg-cac-attempts-rejected-rate>—Counts the attempts rejected due to committed rate violation.

<bsg-information-brief>

Usage

```
<rpc-reply>
  <bsg-information-brief>
    <bsg-information-brief-details>...</bsg-information-brief-details>
  </bsg-information-brief>
</rpc-reply>
```

Description No documentation is available yet.

Contents <bsg-information-brief-details>—No documentation is available yet.

<bsg-information-brief-details>

Usage

```
<bsg-information-brief>
  <bsg-information-brief-details>
    <bsg-signaling-source-ip>bsg-signaling-source-ip</bsg-signaling-source-ip>
    <bsg-signaling-destination-ip>bsg-signaling-destination-ip
                </bsg-signaling-destination-ip>
    <bsg-dialog-information-call-id>bsg-dialog-information-call-id
                </bsg-dialog-information-call-id>
  </bsg-information-brief-details>
</bsg-information-brief>
```

Description No documentation is available yet.

Contents <bsg-dialog-information-call-id>—The call ID.

<bsg-signaling-destination-ip>—The destination ip address.

<bsg-signaling-source-ip>—The source ip address.

<bsg-information-details-detailed>

Usage

```
<rpc-reply>
  <bsg-information-details-detailed>
    <bsg-service-point-calls-information>...</bsg-service-point-calls-information>
  </bsg-information-details-detailed>
</rpc-reply>
```

Description Show border signaling gateway information.

Contents <bsg-service-point-calls-information>—No documentation is available yet.

<bsg-information-summary>

Usage

```
<rpc-reply>
  <bsg-information-summary>
    <bsg-information-active-calls>bsg-information-active-calls
                </bsg-information-active-calls>
  </bsg-information-summary>
</rpc-reply>
```

Description No documentation is available yet.

Contents <bsg-information-active-calls>—The of active calls for the given request.

<bsg-media-details>

Usage

```
<bsg-service-point-calls-information>
  <bsg-media-details>
    <bsg-media-ip>bsg-media-ip</bsg-media-ip>
    <bsg-media-port>bsg-media-port</bsg-media-port>
    <bsg-media-status>bsg-media-status</bsg-media-status>
  </bsg-media-details>
</bsg-service-point-calls-information>
```

Description Media details .

Contents <bsg-media-ip>—The media ip address.

<bsg-media-port>—The media port.

<bsg-media-status>—The media status.

<bsg-memory-pools>

Usage

```
<rpc-reply>
  <bsg-memory-pools>
    <memory-pool-name>memory-pool-name</memory-pool-name>
    <memory-pool-chunks-num>memory-pool-chunks-num</memory-pool-chunks-num>
    <memory-pool-free-chunks-num>memory-pool-free-chunks-num
                    </memory-pool-free-chunks-num>
  </bsg-memory-pools>
</rpc-reply>
```

Description Show border signaling gateway memory pools.

Contents <memory-pool-chunks-num>—Memory pool chunks num.

<memory-pool-free-chunks-num>—Memory pool free chunks num.

<memory-pool-name>—Memory pool name.

<bsg-service-point-calls-details>

Usage

```
<bsg-statistics-calls>
  <bsg-service-point-calls-details>
    <bsg-sp-address>bsg-sp-address</bsg-sp-address>
    <bsg-sp-direction>bsg-sp-direction</bsg-sp-direction>
    <bsg-sp-failed-calls>bsg-sp-failed-calls</bsg-sp-failed-calls>
    <bsg-sp-completed-calls>bsg-sp-completed-calls</bsg-sp-completed-calls>
    <bsg-sp-active-calls>bsg-sp-active-calls</bsg-sp-active-calls>
  </bsg-service-point-calls-details>
</bsg-statistics-calls>
```

Description No documentation is available yet.

Contents <bsg-sp-active-calls>—Counts all the active calls.

<bsg-sp-address>—The service point address.

<bsg-sp-completed-calls>—Counts all the completed calls.

<bsg-sp-direction>—The service point direction.

<bsg-sp-failed-calls>—Counts all the failed calls.

<bsg-service-point-calls-failed-details>

Usage

```
<bsg-statistics-calls-failed>
  <bsg-service-point-calls-failed-details>
    <bsg-sp-name>bsg-sp-name</bsg-sp-name>
    <bsg-sp-direction>bsg-sp-direction</bsg-sp-direction>
    <bsg-sp-error-response-code>bsg-sp-error-response-code
            </bsg-sp-error-response-code>
    <bsg-sp-internal-error>bsg-sp-internal-error</bsg-sp-internal-error>
    <bsg-sp-inactive-timeout>bsg-sp-inactive-timeout</bsg-sp-inactive-timeout>
    <bsg-sp-setup-media-failure>bsg-sp-setup-media-failure
            </bsg-sp-setup-media-failure>
    <bsg-sp-setup-media-failure-inactivity>bsg-sp-setup-media-failure-inactivity
            </bsg-sp-setup-media-failure-inactivity>
    <bsg-sp-cac-policy-rejection>bsg-sp-cac-policy-rejection
            </bsg-sp-cac-policy-rejection>
    <bsg-sp-default-behavior-policy-rejection>bsg-sp-default-behavior-policy-rejection
            </bsg-sp-default-behavior-policy-rejection>

<bsg-sp-configured-behavior-policy-rejection>bsg-sp-configured-behavior-policy-rejection
            </bsg-sp-configured-behavior-policy-rejection>
    <bsg-sp-transport-conflict-policy-rejection>bsg-sp-transport-conflict-policy-rejection
            </bsg-sp-transport-conflict-policy-rejection>
    <bsg-sp-protocol-error>bsg-sp-protocol-error</bsg-sp-protocol-error>
    <bsg-sp-setup-timeout>bsg-sp-setup-timeout</bsg-sp-setup-timeout>
    <bsg-sp-transport-error>bsg-sp-transport-error</bsg-sp-transport-error>
  </bsg-service-point-calls-failed-details>
</bsg-statistics-calls-failed>
```

Description No documentation is available yet.

Contents

<bsg-sp-cac-policy-rejection>—The call was terminated during setup due to CAC restrictions.

<bsg-sp-configured-behavior-policy-rejection>—The call was actively rejected by the policy.

<bsg-sp-default-behavior-policy-rejection>—No matching accepting policy was match on the incoming call.

<bsg-sp-direction>—The service point direction.

<bsg-sp-error-response-code>—Error response codes received during call setup that terminated the call.

<bsg-sp-inactive-timeout>—Inactive timeout timer has expired and caused active call termination.

<bsg-sp-internal-error>—BSG Internal errors during the call setup that terminated the call.

<bsg-sp-name>—No documentation is available yet.

<bsg-sp-protocol-error>—Some protocol error during call setup terminated the call.

<bsg-sp-setup-media-failure>—Some media failure during call setup terminated the call.

<bsg-sp-setup-media-failure-inactivity>—A media inactivity was detected, causing the call to terminate.

<bsg-sp-setup-timeout>—Some timeout during call setup terminated the call.

<bsg-sp-transport-conflict-policy-rejection>—No matching egress service point was found.

<bsg-sp-transport-error>—Some transport error during call setup terminated the call.

<bsg-service-point-calls-information>

Usage

```
<bsg-information-details-detailed>
  <bsg-service-point-calls-information>
    <bsg-signaling-source-ip>bsg-signaling-source-ip</bsg-signaling-source-ip>
    <bsg-signaling-destination-ip>bsg-signaling-destination-ip
                </bsg-signaling-destination-ip>
    <bsg-dialog-information-call-id>bsg-dialog-information-call-id
                </bsg-dialog-information-call-id>
    <bsg-dialog-information-local-uri>bsg-dialog-information-local-uri
                </bsg-dialog-information-local-uri>
    <bsg-dialog-information-remote-uri>bsg-dialog-information-remote-uri
                </bsg-dialog-information-remote-uri>
    <bsg-dialog-information-local-tag>bsg-dialog-information-local-tag
                </bsg-dialog-information-local-tag>
    <bsg-dialog-information-remote-tag>bsg-dialog-information-remote-tag
                </bsg-dialog-information-remote-tag>
    <bsg-next-hop>bsg-next-hop</bsg-next-hop>
    <bsg-media-details>...</bsg-media-details>
    <bsg-macthed-policies>bsg-macthed-policies</bsg-macthed-policies>
    <bsg-admission-controller>bsg-admission-controller</bsg-admission-controller>
    <bsg-manipulation-rules>bsg-manipulation-rules</bsg-manipulation-rules>
  </bsg-service-point-calls-information>
</bsg-information-details-detailed>
```

Description No documentation is available yet.

Contents

<bsg-admission-controller>—The admission control profile.

<bsg-dialog-information-call-id>—The call ID.

<bsg-dialog-information-local-tag>—The local tag.

<bsg-dialog-information-local-uri>—The local URI.

<bsg-dialog-information-remote-tag>—The remote tag.

<bsg-dialog-information-remote-uri>—The remote URI.

<bsg-macthed-policies>—The matched policies.

<bsg-manipulation-rules>—The manipulation rules.

<bsg-media-details>—Media details .

<bsg-next-hop>—The next hop.

<bsg-signaling-destination-ip>—The destination ip address.

<bsg-signaling-source-ip>—The source ip address.

<bsg-statistics-admission-control>

Usage
```
<bsg-statistics-admission-control-information>
  <bsg-statistics-admission-control>
    <bsg-start-time>bsg-start-time</bsg-start-time>
    <bsg-admission-control-details>...</bsg-admission-control-details>
  </bsg-statistics-admission-control>
</bsg-statistics-admission-control-information>
```

Description No documentation is available yet.

Contents <bsg-admission-control-details>—No documentation is available yet.

<bsg-start-time>—No documentation is available yet.

<bsg-statistics-admission-control-information>

Usage
```
<rpc-reply>
  <bsg-statistics-admission-control-information>
    <bsg-statistics-admission-control>...</bsg-statistics-admission-control>
  </bsg-statistics-admission-control-information>
</rpc-reply>
```

Description Show admission control profiles status.

Contents <bsg-statistics-admission-control>—No documentation is available yet.

<bsg-statistics-calls>

Usage
```
<bsg-statistics-calls-details>
  <bsg-statistics-calls>
    <bsg-start-time>bsg-start-time</bsg-start-time>
    <bsg-service-point-calls-details>...</bsg-service-point-calls-details>
  </bsg-statistics-calls>
</bsg-statistics-calls-details>
```

Description No documentation is available yet.

Contents <bsg-service-point-calls-details>—No documentation is available yet.

<bsg-start-time>—No documentation is available yet.

<bsg-statistics-calls-details>

Usage
```
<rpc-reply>
  <bsg-statistics-calls-details>
    <bsg-statistics-calls>...</bsg-statistics-calls>
  </bsg-statistics-calls-details>
</rpc-reply>
```

Description Count of calls per service point.

Contents <bsg-statistics-calls>—No documentation is available yet.

<bsg-statistics-calls-failed>

Usage

```
<bsg-statistics-calls-failed-details>
  <bsg-statistics-calls-failed>
    <bsg-start-time>bsg-start-time</bsg-start-time>
    <bsg-service-point-calls-failed-details>...
                    </bsg-service-point-calls-failed-details>
  </bsg-statistics-calls-failed>
</bsg-statistics-calls-failed-details>
```

Description No documentation is available yet.

Contents <bsg-service-point-calls-failed-details>—No documentation is available yet.

<bsg-start-time>—No documentation is available yet.

<bsg-statistics-calls-failed-details>

Usage

```
<rpc-reply>
  <bsg-statistics-calls-failed-details>
    <bsg-statistics-calls-failed>...</bsg-statistics-calls-failed>
  </bsg-statistics-calls-failed-details>
</rpc-reply>
```

Description Count of calls per service point.

Contents <bsg-statistics-calls-failed>—No documentation is available yet.

<controller-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <controller-entry>
    <controller-name>controller-name</controller-name>
    <remote-ip-address>remote-ip-address</remote-ip-address>
    <remote-port>remote-port</remote-port>
  </controller-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <controller-name>—No documentation is available yet.

<remote-ip-address>—No documentation is available yet.

<remote-port>—No documentation is available yet.

<cos-stats-service-set-dscp-entry>

Usage
```
<cos-stats-service-set-dscp-information>
  <cos-stats-service-set-dscp-entry>
    <received-dscp>received-dscp</received-dscp>
    <total-received-dscp-packets>total-received-dscp-packets
                </total-received-dscp-packets>
    <total-marked-dscp-packets>total-marked-dscp-packets
                </total-marked-dscp-packets>
  </cos-stats-service-set-dscp-entry>
</cos-stats-service-set-dscp-information>
```

Description Class-of-service service set statistics entry.

Contents <received-dscp>—Received DiffServ Code Point.

<total-marked-dscp-packets>—Total packets marked per DSCP.

<total-received-dscp-packets>—Total packets received per DSCP.

<cos-stats-service-set-dscp-information>

Usage
```
<service-cos-statistics-entry>
  <cos-stats-service-set-dscp-information>
    <cos-stats-service-set-dscp-entry>...</cos-stats-service-set-dscp-entry>
  </cos-stats-service-set-dscp-information>
</service-cos-statistics-entry>
```

Description No documentation is available yet.

Contents <cos-stats-service-set-dscp-entry>—Class-of-service service set statistics entry.

<cos-stats-service-set-forwarding-class-entry>

Usage
```
<cos-stats-service-set-forwarding-class-information>
  <cos-stats-service-set-forwarding-class-entry>
    <received-forwarding-class>received-forwarding-class
                </received-forwarding-class>
    <total-received-forwarding-class-packets>total-received-forwarding-class-packets
                </total-received-forwarding-class-packets>
    <total-assigned-forwarding-class-packets>total-assigned-forwarding-class-packets
                </total-assigned-forwarding-class-packets>
  </cos-stats-service-set-forwarding-class-entry>
</cos-stats-service-set-forwarding-class-information>
```

Description Class-of-service service set statistics entry.

Contents <received-forwarding-class>—Received forwarding class.

<total-assigned-forwarding-class-packets>—Total packets assigned per forwarding class.

<total-received-forwarding-class-packets>—Total packets received per forwarding class.

<cos-stats-service-set-forwarding-class-information>

Usage

```
<service-cos-statistics-entry>
  <cos-stats-service-set-forwarding-class-information>
    <cos-stats-service-set-forwarding-class-entry>...
                    </cos-stats-service-set-forwarding-class-entry>
  </cos-stats-service-set-forwarding-class-information>
</service-cos-statistics-entry>
```

Description No documentation is available yet.

Contents <cos-stats-service-set-forwarding-class-entry>—Class-of-service service set statistics entry.

<crtp-config-info-entry>

Usage

```
<rpc-reply>
  <crtp-config-info-entry>
    <interface-name>interface-name</interface-name>
    <crtp-port-min>crtp-port-min</crtp-port-min>
    <crtp-port-max>crtp-port-max</crtp-port-max>
    <crtp-tcp-space>crtp-tcp-space</crtp-tcp-space>
    <crtp-udp-space>crtp-udp-space</crtp-udp-space>
    <crtp-max-period>crtp-max-period</crtp-max-period>
    <crtp-max-time>crtp-max-time</crtp-max-time>
    <crtp-rtp-queues>crtp-rtp-queues</crtp-rtp-queues>
  </crtp-config-info-entry>
</rpc-reply>
```

Description Compressed Real-Time Protocol information.

Contents <crtp-max-period>—Number of CRTP packets after which a full header is generated.

<crtp-max-time>—Time after which a full header is generated (seconds).

<crtp-port-max>—RTP UDP maximum port number.

<crtp-port-min>—RTP UDP minimum port number.

<crtp-rtp-queues>—CRTP queues.

<crtp-tcp-space>—Maximum number of TCP compressed sessions negotiated.

<crtp-udp-space>—Maximum number of UDP compressed sessions negotiated.

<interface-name>—Name of the adaptive services interface.

<crtp-counter-table>

Usage

```
<rpc-reply>
  <crtp-counter-table>
    <crtp-counter-name>crtp-counter-name</crtp-counter-name>
    <crtp-counter-received>crtp-counter-received</crtp-counter-received>
    <crtp-counter-transmit>crtp-counter-transmit</crtp-counter-transmit>
  </crtp-counter-table>
</rpc-reply>
```

Description No documentation is available yet.

Contents <crtp-counter-name>—CRTP counter name.

<crtp-counter-received>—CRTP receive counter.

<crtp-counter-transmit>—CRTP transmit counter.

<crtp-flow-entry>

Usage

```
<service-crtp-flow-table>
  <crtp-flow-entry>
    <crtp-flow-context-id>crtp-flow-context-id</crtp-flow-context-id>
    <crtp-flow-rtp-id>crtp-flow-rtp-id</crtp-flow-rtp-id>
    <crtp-flow-source-info>crtp-flow-source-info</crtp-flow-source-info>
    <crtp-flow-destination-info>crtp-flow-destination-info
                    </crtp-flow-destination-info>
    <crtp-flow-type>crtp-flow-type</crtp-flow-type>
  </crtp-flow-entry>
</service-crtp-flow-table>
```

Description CRTP flow information.

Contents <crtp-flow-context-id>—Context identifier.

<crtp-flow-destination-info>—Flow destination information (IP address and UDP port).

<crtp-flow-rtp-id>—RTP SSRC identifier.

<crtp-flow-source-info>—Flow source information (IP address and UDP port).

<crtp-flow-type>—Flow type.

<crtp-ip-counter-table>

Usage

```
<rpc-reply>
  <crtp-ip-counter-table>
    <crtp-ip-counter-name>crtp-ip-counter-name</crtp-ip-counter-name>
    <crtp-ip-counter-received>crtp-ip-counter-received</crtp-ip-counter-received>
    <crtp-ip-counter-transmit>crtp-ip-counter-transmit</crtp-ip-counter-transmit>
  </crtp-ip-counter-table>
</rpc-reply>
```

Description No documentation is available yet.

Contents <crtp-ip-counter-name>—CRTP counter name.

<crtp-ip-counter-received>—CRTP receive counter.

<crtp-ip-counter-transmit>—CRTP transmit counter.

<crtp-per-interface-flow-table>

Usage

```
<service-crtp-flow-table-information>
  <crtp-per-interface-flow-table>
    <interface-name>interface-name</interface-name>
    <service-crtp-flow-table>...</service-crtp-flow-table>
  </crtp-per-interface-flow-table>
</service-crtp-flow-table-information>
```

Description CRTP flows sorted by interface.

Contents <interface-name>—Name of the adaptive services interface.

<service-crtp-flow-table>—CRTP flows.

<crtp-stats-entry>

Usage

```
<rpc-reply>
  <crtp-stats-entry>
    <crtp-compression-ratio>crtp-compression-ratio</crtp-compression-ratio>
    <crtp-decompression-ratio>crtp-decompression-ratio</crtp-decompression-ratio>
    <crtp-sessions-rx>crtp-sessions-rx</crtp-sessions-rx>
    <crtp-sessions-tx>crtp-sessions-tx</crtp-sessions-tx>
    <crtp-compressed-rx>crtp-compressed-rx</crtp-compressed-rx>
    <crtp-compressed-tx>crtp-compressed-tx</crtp-compressed-tx>
    <crtp-discards>crtp-discards</crtp-discards>
  </crtp-stats-entry>
</rpc-reply>
```

Description CRTP statistics.

Contents <crtp-compressed-rx>—CRTP compressed packets received.

<crtp-compressed-tx>—CRTP compressed packets transmitted.

<crtp-compression-ratio>—CRTP compression ratio.

<crtp-decompression-ratio>—CRTP decompression ratio.

<crtp-discards>—CRTP discards.

<crtp-sessions-rx>—CRTP incoming sessions.

<crtp-sessions-tx>—CRTP outgoing sessions.

<drop_counters>

Usage

```
<sfw-stats-service-set-entry>
  <drop_counters>
    <ip-option>ip-option</ip-option>
    <syn-defense>syn-defense</syn-defense>
    <nat-ports-exhausted>nat-ports-exhausted</nat-ports-exhausted>
  </drop_counters>
</sfw-stats-service-set-entry>
```

Description Drop counters (rules or resource exhaustion).

Contents <ip-option>—IP option drops.

<nat-ports-exhausted>—NAT ports exhausted.

<syn-defense>—Incomplete TCP handshakes.

<encoding>

Usage

```
<h248-options-entry>
  <encoding>
    <no-dscp-bit-mirroring>no-dscp-bit-mirroring</no-dscp-bit-mirroring>
  </encoding>
</h248-options-entry>
```

Description No documentation is available yet.

Contents <no-dscp-bit-mirroring>—No documentation is available yet.

<error-counters>

Usage

```
<sfw-stats-service-set-entry>
  <error-counters>
    <ip-errors>ip-errors</ip-errors>
    <tcp-errors>tcp-errors</tcp-errors>
    <udp-errors>udp-errors</udp-errors>
    <icmp-errors>icmp-errors</icmp-errors>
    <non-ip-packets>non-ip-packets</non-ip-packets>
    <alg-errors>alg-errors</alg-errors>
  </error-counters>
</sfw-stats-service-set-entry>
```

Description Summarized protocol processing errors.

Contents <alg-errors>—ALG processing errors.

<icmp-errors>—ICMP processing errors.

<ip-errors>—IP processing errors.

<non-ip-packets>—Non-IP packets.

<tcp-errors>—TCP processing errors.

<udp-errors>—UDP processing errors.

<existing-flow-counters>

Usage
```
<sfw-stats-service-set-entry>
  <existing-flow-counters>
    <existing-flow-accepts>existing-flow-accepts</existing-flow-accepts>
    <existing-flow-discards>existing-flow-discards</existing-flow-discards>
    <existing-flow-rejects>existing-flow-rejects</existing-flow-rejects>
  </existing-flow-counters>
</sfw-stats-service-set-entry>
```

Description Existing flow counters.

Contents <existing-flow-accepts>—Packets accepted by existing flows.

<existing-flow-discards>—Packets discarded by existing flows.

<existing-flow-rejects>—Packets rejected by existing flows.

<fast-update-filters-entry>

Usage
```
<pgcpd-active-configuration | gateway-entry>
  <fast-update-filters-entry>
    <max-terms>max-terms</max-terms>
    <max-term-percentage>max-term-percentage</max-term-percentage>
  </fast-update-filters-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description Firewall filters limitation.

Contents <max-term-percentage>—Maximum percentage of gates with filter terms.

<max-terms>—Maximum number of filter terms.

<firewall-entry>

Usage
```
<pgcpd-active-configuration | pgcpd-config>
  <firewall-entry>
    <connection-status>connection-status</connection-status>
    <number-of-terms>number-of-terms</number-of-terms>
    <number-of-filters>number-of-filters</number-of-filters>
  </firewall-entry>
</pgcpd-active-configuration | pgcpd-config>
```

Description No documentation is available yet.

Contents <connection-status>—No documentation is available yet.

<number-of-filters>—No documentation is available yet.

<number-of-terms>—No documentation is available yet.

<flow-table-statistics>

Usage

```
<flow-table-statistics-information>
  <flow-table-statistics>
    <interface-name>interface-name</interface-name>
    <flow-tables>flow-tables</flow-tables>
    <flow>flow</flow>
    <flow-peak>flow-peak</flow-peak>
    <flow-tcp>flow-tcp</flow-tcp>
    <flow-tcp-peak>flow-tcp-peak</flow-tcp-peak>
    <flow-udp>flow-udp</flow-udp>
    <flow-udp-peak>flow-udp-peak</flow-udp-peak>
    <flow-created>flow-created</flow-created>
    <flow-freed>flow-freed</flow-freed>
    <flow-freed-idle>flow-freed-idle</flow-freed-idle>
    <flow-tcp-created>flow-tcp-created</flow-tcp-created>
    <flow-tcp-freed>flow-tcp-freed</flow-tcp-freed>
    <flow-tcp-freed-idle>flow-tcp-freed-idle</flow-tcp-freed-idle>
    <flow-udp-created>flow-udp-created</flow-udp-created>
    <flow-udp-freed>flow-udp-freed</flow-udp-freed>
    <flow-udp-freed-idle>flow-udp-freed-idle</flow-udp-freed-idle>
    <flow-packets-processed>flow-packets-processed</flow-packets-processed>
    <flow-packets-errored>flow-packets-errored</flow-packets-errored>
    <flow-bytes-processed>flow-bytes-processed</flow-bytes-processed>
    <flow-byte-errored>flow-byte-errored</flow-byte-errored>
    <flow-tcp-packets-processed>flow-tcp-packets-processed
            </flow-tcp-packets-processed>
    <flow-tcp-packets-errored>flow-tcp-packets-errored</flow-tcp-packets-errored>
    <flow-tcp-packets-errored-bad-flow>flow-tcp-packets-errored-bad-flow
            </flow-tcp-packets-errored-bad-flow>
    <flow-tcp-bytes-processed>flow-tcp-bytes-processed</flow-tcp-bytes-processed>
    <flow-tcp-bytes-errored>flow-tcp-bytes-errored</flow-tcp-bytes-errored>
    <flow-udp-packets-processed>flow-udp-packets-processed
            </flow-udp-packets-processed>
    <flow-udp-packets-errored>flow-udp-packets-errored</flow-udp-packets-errored>
    <flow-udp-packets-errored-bad-flow>flow-udp-packets-errored-bad-flow
            </flow-udp-packets-errored-bad-flow>
    <flow-udp-bytes-processed>flow-udp-bytes-processed</flow-udp-bytes-processed>
    <flow-udp-bytes-errored>flow-udp-bytes-errored</flow-udp-bytes-errored>
    <flow-icmp-packets-processed>flow-icmp-packets-processed
            </flow-icmp-packets-processed>
    <flow-icmp-packets-errored>flow-icmp-packets-errored
            </flow-icmp-packets-errored>
    <flow-icmp-packets-errored-bad-flow>flow-icmp-packets-errored-bad-flow
            </flow-icmp-packets-errored-bad-flow>
    <flow-icmp-bytes-processed>flow-icmp-bytes-processed
            </flow-icmp-bytes-processed>
    <flow-icmp-bytes-errored>flow-icmp-bytes-errored</flow-icmp-bytes-errored>
  </flow-table-statistics>
</flow-table-statistics-information>
```

Description Statistics for one or more flow tables.

Contents <flow>—Total number of flows in the table.

<flow-byte-errored>—Total bytes for all packets errored by flow table processing.

<flow-bytes-processed>—Total bytes for all packets processed by flow table.

<flow-created>—Total flows created.

<flow-freed>—Total flows freed.

<flow-freed-idle>—Total flows freed by idle flow detection.

<flow-icmp-bytes-errored>—Total bytes for all ICMP packets errored in processing.

<flow-icmp-bytes-processed>—Total bytes for all processed ICMP packets.

<flow-icmp-packets-errored>—Total ICMP packets errored in processing.

<flow-icmp-packets-errored-bad-flow>—Total ICMP packets errored due to referencing an invalid flow.

<flow-icmp-packets-processed>—Total ICMP packets.

<flow-packets-errored>—Total packets errored by flow table processing.

<flow-packets-processed>—Total packets processed by flow table.

<flow-peak>—Sampled peak number of flows in the table.

<flow-tables>—Total number of flow tables being summarized.

<flow-tcp>—Total number of TCP flows in the table.

<flow-tcp-bytes-errored>—Total bytes for all TCP packets errored in processing.

<flow-tcp-bytes-processed>—Total bytes for all processed TCP packets.

<flow-tcp-created>—Total TCP flows created.

<flow-tcp-freed>—Total TCP flows freed.

<flow-tcp-freed-idle>—Total TCP flows freed by idle detection.

<flow-tcp-packets-errored>—Total TCP packets errored in processing.

<flow-tcp-packets-errored-bad-flow>—Total TCP packets errored due to referencing an invalid flow.

<flow-tcp-packets-processed>—Total TCP packets processed.

<flow-tcp-peak>—Sampled peak number of TCP flows in the table.

<flow-udp>—Total number of UDP flows in the table.

<flow-udp-bytes-errored>—Total bytes for all UDP packets errored in processing.

<flow-udp-bytes-processed>—Total bytes for all processed UDP packets.

<flow-udp-created>—Total UDP flows created.

<flow-udp-freed>—Total UDP flows freed.

<flow-udp-freed-idle>—Total UDP flows freed by idle detection.

<flow-udp-packets-errored>—Total UDP packets errored in processing.

<flow-udp-packets-errored-bad-flow>—Total UDP packets errored due to referencing an invalid flow.

<flow-udp-packets-processed>—Total UDP packets processed.

<flow-udp-peak>—Peak number of UDP flows in the table.

<interface-name>—Name of the adaptive services interface.

<flow-table-statistics-information>

Usage

```
<rpc-reply>
  <flow-table-statistics-information>
    <flow-table-statistics>...</flow-table-statistics>
  </flow-table-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <flow-table-statistics>—Statistics for one or more flow tables.

<fragmenter-entries>

Usage

```
<lsqinfo-cpu-usage-information>
  <fragmenter-entries>
    <fragmenter-entry>...</fragmenter-entry>
  </fragmenter-entries>
</lsqinfo-cpu-usage-information>
```

Description No documentation is available yet.

Contents <fragmenter-entry>—Fragmentation CPU usage information.

<fragmenter-entry>

Usage
```
<fragmenter-entries>
  <fragmenter-entry>
    <cpu-name>cpu-name</cpu-name>
    <idle>idle</idle>
    <timer>timer</timer>
    <system>system</system>
    <freeback>freeback</freeback>
    <drop>drop</drop>
    <fragmentation>fragmentation</fragmentation>
    <reassembly>reassembly</reassembly>
  </fragmenter-entry>
</fragmenter-entries>
```

Description Fragmentation CPU usage information.

Contents <cpu-name>— CPU name.

<drop>—Percentage of CPU time taken by Drop thread.

<fragmentation>—Percentage of CPU time taken by Fragmentation thread.

<freeback>—Percentage of CPU time taken by Freeback thread.

<idle>—Percentage of CPU time taken by Idle thread.

<reassembly>—Percentage of CPU time taken by reassembly thread.

<system>—Percentage of CPU time taken by System thread.

<timer>—Percentage of CPU time taken by Timer thread.

<gate-fuf-statistics-information>

Usage
```
<service-pgcp-gate-entry-information>
  <gate-fuf-statistics-information>
    <gate-fuf-policer-drop-count>gate-fuf-policer-drop-count
                </gate-fuf-policer-drop-count>
  </gate-fuf-statistics-information>
</service-pgcp-gate-entry-information>
```

Description FUF statistics.

Contents <gate-fuf-policer-drop-count>—Number of dropped policer packets.

<gate-rtcp-information>

Usage

```
<service-pgcp-gate-entry-information>
  <gate-rtcp-information>
    <gate-rtcp-sender-information>...</gate-rtcp-sender-information>
    <gate-rtcp-receiver-information>...</gate-rtcp-receiver-information>
  </gate-rtcp-information>
</service-pgcp-gate-entry-information>
```

Description No documentation is available yet.

Contents <gate-rtcp-receiver-information>—RTCP receiver reports.

<gate-rtcp-sender-information>—RTCP statistcs.

<gate-rtcp-receiver-entry>

Usage

```
<gate-rtcp-receiver-information>
  <gate-rtcp-receiver-entry>
    <gate-rtcp-received-ssrc>gate-rtcp-received-ssrc</gate-rtcp-received-ssrc>
    <gate-rtcp-receiver-lost-pkts>gate-rtcp-receiver-lost-pkts
                </gate-rtcp-receiver-lost-pkts>
    <gate-rtcp-receiver-lost-pkt-fraction>gate-rtcp-receiver-lost-pkt-fraction
                </gate-rtcp-receiver-lost-pkt-fraction>
    <gate-rtcp-receiver-jitter>gate-rtcp-receiver-jitter
                </gate-rtcp-receiver-jitter>
  </gate-rtcp-receiver-entry>
</gate-rtcp-receiver-information>
```

Description No documentation is available yet.

Contents <gate-rtcp-received-ssrc>—RTP Synchronization source.

<gate-rtcp-receiver-jitter>—Jitter for received packets.

<gate-rtcp-receiver-lost-pkt-fraction>—Fraction of packets lost.

<gate-rtcp-receiver-lost-pkts>—Number of packets lost.

<gate-rtcp-receiver-information>

Usage

```
<gate-rtcp-information>
  <gate-rtcp-receiver-information>
    <gate-rtcp-receiver-entry>...</gate-rtcp-receiver-entry>
  </gate-rtcp-receiver-information>
</gate-rtcp-information>
```

Description RTCP receiver reports.

Contents <gate-rtcp-receiver-entry>—No documentation is available yet.

<gate-rtcp-sender-information>

Usage

```
<gate-rtcp-information>
  <gate-rtcp-sender-information>
    <gate-rtcp-sender-ssrc>gate-rtcp-sender-ssrc</gate-rtcp-sender-ssrc>
    <gate-rtcp-sender-octets>gate-rtcp-sender-octets</gate-rtcp-sender-octets>
    <gate-rtcp-sender-pkts>gate-rtcp-sender-pkts</gate-rtcp-sender-pkts>
    <gate-rtcp-invalid-pkts>gate-rtcp-invalid-pkts</gate-rtcp-invalid-pkts>
  </gate-rtcp-sender-information>
</gate-rtcp-information>
```

Description RTCP statistcs.

Contents <gate-rtcp-invalid-pkts>—Invalid RTCP packets.

<gate-rtcp-sender-octets>—Number of bytes sent.

<gate-rtcp-sender-pkts>—Number of packets sent.

<gate-rtcp-sender-ssrc>—RTP Synchronization source.

<gateway-entry>

Usage

```
<pgcpd-active-configuration | pgcpd-config | service-pgcp-statistics-gateway |
service-pgcp-terminations | service-pgcp-gates>
  <gateway-entry>
    <gateway-name>gateway-name</gateway-name>
    <local-ip-address>local-ip-address</local-ip-address>
    <local-port>local-port</local-port>
    <platform>platform</platform>
    <service-state>service-state</service-state>
    <active-controller>active-controller</active-controller>
    <replication-socket>replication-socket</replication-socket>
    <synchronization-state>synchronization-state</synchronization-state>
    <cleanup-timeout>cleanup-timeout</cleanup-timeout>

<maximum-concurrent-calls>maximum-concurrent-calls</maximum-concurrent-calls>
    <inactivity-timeout-delay>inactivity-timeout-delay</inactivity-timeout-delay>
    <inactivity-timeout-duration>inactivity-timeout-duration
                </inactivity-timeout-duration>
    <latch-deadlock-duration>latch-deadlock-duration</latch-deadlock-duration>
    <h248-timers-entry>...</h248-timers-entry>
    <base-root-entry>...</base-root-entry>
    <h248-options-entry>...</h248-options-entry>
    <h248-segmentation-properties-entry>...</h248-segmentation-properties-entry>
    <h248-diffserv-entry>...</h248-diffserv-entry>
    <h248-notification-behavior-entry>...</h248-notification-behavior-entry>
    <h248-application-data-inactivity-detection-entry>...
                </h248-application-data-inactivity-detection-entry>
    <h248-event-timestamp-notification-entry>...
                </h248-event-timestamp-notification-entry>
    <inactivity-timer-entry>...</inactivity-timer-entry>
    <fast-update-filters-entry>...</fast-update-filters-entry>
    <controller-entry>...</controller-entry>
    <overload-control-entry>...</overload-control-entry>
  </gateway-entry>
</pgcpd-active-configuration | pgcpd-config | service-pgcp-statistics-gateway |
service-pgcp-terminations | service-pgcp-gates>
```

Description No documentation is available yet.

Contents <active-controller>—No documentation is available yet.

<base-root-entry>—Array of h248 base root properties.

<cleanup-timeout>—No documentation is available yet.

<controller-entry>—No documentation is available yet.

<fast-update-filters-entry>—Firewall filters limitation.

<gateway-name>—No documentation is available yet.

<h248-application-data-inactivity-detection-entry>—No documentation is available yet.

<h248-diffserv-entry>—No documentation is available yet.

<h248-event-timestamp-notification-entry>—No documentation is available yet.

<h248-notification-behavior-entry>—No documentation is available yet.

<h248-options-entry>—No documentation is available yet.

<h248-segmentation-properties-entry>—Array of h248 segmentation properties.

<h248-timers-entry>—No documentation is available yet.

<inactivity-timeout-delay>—No documentation is available yet.

<inactivity-timeout-duration>—No documentation is available yet.

<inactivity-timer-entry>—No documentation is available yet.

<latch-deadlock-duration>—No documentation is available yet.

<local-ip-address>—No documentation is available yet.

<local-port>—No documentation is available yet.

<maximum-concurrent-calls>—Maximum concurrent calls.

<overload-control-entry>—No documentation is available yet.

<platform>—No documentation is available yet.

<replication-socket>—No documentation is available yet.

<service-state>—No documentation is available yet.

<synchronization-state>—No documentation is available yet.

<h248-application-data-inactivity-detection-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-application-data-inactivity-detection-entry>
    <ip-flow-stop-detection>ip-flow-stop-detection</ip-flow-stop-detection>
  </h248-application-data-inactivity-detection-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <ip-flow-stop-detection>—Notify behavior to media inactivity event.

<h248-diffserv-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-diffserv-entry>
    <dscp>dscp</dscp>
  </h248-diffserv-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <dscp>—No documentation is available yet.

<h248-event-timestamp-notification-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-event-timestamp-notification-entry>
    <requested-timestamp>requested-timestamp</requested-timestamp>
  </h248-event-timestamp-notification-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <requested-timestamp>—Notification timestamp.

<h248-notification-behavior-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-notification-behavior-entry>
    <notification-regulation>notification-regulation</notification-regulation>
  </h248-notification-behavior-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <notification-regulation>—Notify regulation.

<h248-options-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-options-entry>
    <wildcard-response-service-change>wildcard-response-service-change
                </wildcard-response-service-change>
    <suppress-sc-forced-state-loss>suppress-sc-forced-state-loss
                </suppress-sc-forced-state-loss>
    <audit-observed-events-returns-history>audit-observed-events-returns-history
                </audit-observed-events-returns-history>
    <encoding>...</encoding>
  </h248-options-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <audit-observed-events-returns-history>—Activation of event history.

<encoding>—No documentation is available yet.

<suppress-sc-forced-state-loss>—No documentation is available yet.

<wildcard-response-service-change>—No documentation is available yet.

<h248-segmentation-properties-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-segmentation-properties-entry>
    <sgp_name>sgp_name</sgp_name>
    <sgp_minimum>sgp_minimum</sgp_minimum>
    <sgp_maximum>sgp_maximum</sgp_maximum>
    <sgp_default>sgp_default</sgp_default>
  </h248-segmentation-properties-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description Array of h248 segmentation properties.

Contents <sgp_default>—Property's default value.

<sgp_maximum>—Property's maximum range value.

<sgp_minimum>—Property's minimum range value.

<sgp_name>—Property's name.

<h248-timers-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <h248-timers-entry>
    <maximum-waiting-delay>maximum-waiting-delay</maximum-waiting-delay>
    <tmax-retransmission-delay>tmax-retransmission-delay
                    </tmax-retransmission-delay>
    <initial-average-ack-delay>initial-average-ack-delay
                    </initial-average-ack-delay>
    <maximum-net-propagation-delay>maximum-net-propagation-delay
                    </maximum-net-propagation-delay>
  </h248-timers-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <initial-average-ack-delay>—No documentation is available yet.

<maximum-net-propagation-delay>—No documentation is available yet.

<maximum-waiting-delay>—No documentation is available yet.

<tmax-retransmission-delay>—No documentation is available yet.

<header-redirect-set-statistics>

Usage

```
<header-redirect-set-statistics-information>
  <header-redirect-set-statistics>
    <header-redirect-set-name>header-redirect-set-name</header-redirect-set-name>
    <cause-roaming>cause-roaming</cause-roaming>
    <cause-time-of-day>cause-time-of-day</cause-time-of-day>
    <cause-quality-of-service>cause-quality-of-service</cause-quality-of-service>
    <cause-volume-expired>cause-volume-expired</cause-volume-expired>
    <cause-cost-warning>cause-cost-warning</cause-cost-warning>
    <cause-not-allowed>cause-not-allowed</cause-not-allowed>
    <cause-unsubscribed>cause-unsubscribed</cause-unsubscribed>
    <cause-credit-expiry>cause-credit-expiry</cause-credit-expiry>
    <cause-unknown>cause-unknown</cause-unknown>
    <cause-default>cause-default</cause-default>
  </header-redirect-set-statistics>
</header-redirect-set-statistics-information>
```

Description Statistics for the header redirect sets.

Contents <cause-cost-warning>—Number of redirects due to cost warning limit.

<cause-credit-expiry>—Number of redirects due to expiration of credit.

<cause-default>—Number of redirects due to default reason match.

<cause-not-allowed>—Number of redirects due to disallowed service class.

<cause-quality-of-service>—Number of redirects due to QoS.

<cause-roaming>—Number of redirects due to roaming.

<cause-time-of-day>—Number of redirects due to time of day.

<cause-unknown>—Number of redirects due to unknown reason.

<cause-unsubscribed>—Number of redirects due to unsubscribed service class.

<cause-volume-expired>—Number of redirects due to expiration of volume limit.

<header-redirect-set-name>—Name of the header redirect set.

<header-redirect-set-statistics-information>

Usage

```
<rpc-reply>
  <header-redirect-set-statistics-information>
    <interface-name>interface-name</interface-name>
    <interfaces>interfaces</interfaces>
    <header-redirect-set-statistics>...</header-redirect-set-statistics>
  </header-redirect-set-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <header-redirect-set-statistics>—Statistics for the header redirect sets.

<interface-name>—Name of the adaptive services interface.

<interfaces>—Total number of interfaces summarized.

<icmp-error-counters>

Usage

```
<sfw-stats-service-set-entry>
  <icmp-error-counters>
    <icmp-length-error>icmp-length-error</icmp-length-error>
    <icmp-error-length-error>icmp-error-length-error</icmp-error-length-error>
    <ping-duplicate-sequence-number>ping-duplicate-sequence-number
                </ping-duplicate-sequence-number>
    <ping-mismatched-sequence-number>ping-mismatched-sequence-number
                </ping-mismatched-sequence-number>
  </icmp-error-counters>
</sfw-stats-service-set-entry>
```

Description Extensive output of ICMP processing errors.

Contents <icmp-error-length-error>—ICMP error length inconsistencies.

<icmp-length-error>—IP data length less than minimum ICMP header length (8 bytes).

<ping-duplicate-sequence-number>—Duplicate ping sequence number.

<ping-mismatched-sequence-number>—Mismatched ping sequence number.

<ids-anomaly-entry>

Usage

```
<ids-flow-entry>
  <ids-anomaly-entry>
    <ids-anomaly-description>ids-anomaly-description</ids-anomaly-description>
    <ids-anomaly-count>ids-anomaly-count</ids-anomaly-count>
    <ids-anomaly-rate>ids-anomaly-rate</ids-anomaly-rate>
    <ids-anomaly-elapsed>ids-anomaly-elapsed</ids-anomaly-elapsed>
  </ids-anomaly-entry>
</ids-flow-entry>
```

Description IDS anomaly information.

Contents <ids-anomaly-count>—Number of anomalies for current type.

<ids-anomaly-description>—Anomaly description.

<ids-anomaly-elapsed>—Elapsed time from last event.

<ids-anomaly-rate>—Rate of anomalies (events per second).

<ids-flow-entry>

Usage

```
<ids-flow-table>
  <ids-flow-entry>
    <ids-flow-source-ip>ids-flow-source-ip</ids-flow-source-ip>
    <ids-flow-destination-ip>ids-flow-destination-ip</ids-flow-destination-ip>
    <ids-flow-time>ids-flow-time</ids-flow-time>
    <ids-flow-flags>ids-flow-flags</ids-flow-flags>
    <ids-flow-long-flags>ids-flow-long-flags</ids-flow-long-flags>
    <ids-flow-count>ids-flow-count</ids-flow-count>
    <ids-flow-application>ids-flow-application</ids-flow-application>
    <ids-bytes-count>ids-bytes-count</ids-bytes-count>
    <ids-packets-count>ids-packets-count</ids-packets-count>
    <ids-flows-count>ids-flows-count</ids-flows-count>
    <ids-anomalies-count>ids-anomalies-count</ids-anomalies-count>
    <ids-anomaly-entry>...</ids-anomaly-entry>
  </ids-flow-entry>
</ids-flow-table>
```

Description IDS terse information.

Contents <ids-anomalies-count>—Number of anomalies.

<ids-anomaly-entry>—IDS anomaly information.

<ids-bytes-count>—Number of bytes.

<ids-flow-application>—Application name.

<ids-flow-count>—Value depend from request (packet number, bytes, and so on).

<ids-flow-destination-ip>—Destination IP address.

<ids-flow-flags>—S - SYN cookie enabled, F - Forced entry.

<ids-flow-long-flags>—SYN cookie enabled, Forced entry.

<ids-flow-source-ip>—Source IP address.

<ids-flow-time>—Time from last event.

<ids-flows-count>—Number of flows.

<ids-packets-count>—Number of packets.

<ids-flow-table>

Usage
```
<ids-per-service-set-flow-table>
  <ids-flow-table>
    <ids-flow-entry>...</ids-flow-entry>
  </ids-flow-table>
</ids-per-service-set-flow-table>
```

Description IDS table sorted by service set.

Contents <ids-flow-entry>—IDS terse information.

<ids-per-service-set-flow-table>

Usage
```
<service-ids-flow-table-information>
  <ids-per-service-set-flow-table>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <ids-sort-order>ids-sort-order</ids-sort-order>
    <ids-flow-table>...</ids-flow-table>
  </ids-per-service-set-flow-table>
</service-ids-flow-table-information>
```

Description IDS table sorted by service set.

Contents <ids-flow-table>—IDS table sorted by service set.

<ids-sort-order>—IDS table sorting order.

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<ids-show-summary>

Usage
```
<service-ids-flow-table-information>
  <ids-show-summary>
    <interface-name>interface-name</interface-name>
    <ids-total-entries>ids-total-entries</ids-total-entries>
    <ids-total-failed-insertions>ids-total-failed-insertions
                  </ids-total-failed-insertions>
    <ids-total-events>ids-total-events</ids-total-events>
  </ids-show-summary>
</service-ids-flow-table-information>
```

Description IDS table summary.

Contents <ids-total-entries>—Total number of filled entries in IDS table.

<ids-total-events>—Total number of events (closed flows and anomalies).

<ids-total-failed-insertions>—Total number of failed IDS table entry insertions.

<interface-name>—Name of the adaptive services interface.

<inactivity-timer-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <inactivity-timer-entry>
    <detect>detect</detect>
    <maximum-inactivity-time>...</maximum-inactivity-time>
  </inactivity-timer-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <detect>—Detect inactivity timeout.

<maximum-inactivity-time>—No documentation is available yet.

<ip-error-counters>

Usage

```
<sfw-stats-service-set-entry>
  <ip-error-counters>
    <ip-length-error>ip-length-error</ip-length-error>
    <ip-header-length-error>ip-header-length-error</ip-header-length-error>
    <long-packet>long-packet</long-packet>
    <illegal-source-address>illegal-source-address</illegal-source-address>
    <illegal-destination-address>illegal-destination-address
                </illegal-destination-address>
    <ttl-zero>ttl-zero</ttl-zero>
    <illegal-ip-protocol>illegal-ip-protocol</illegal-ip-protocol>
    <land-attack>land-attack</land-attack>
    <non-ipv4>non-ipv4</non-ipv4>
    <bad-checksum>bad-checksum</bad-checksum>
    <illegal-fragment-length>illegal-fragment-length</illegal-fragment-length>
    <fragment-overlap>fragment-overlap</fragment-overlap>
    <fragment-reassembly-timeout>fragment-reassembly-timeout
                </fragment-reassembly-timeout>
    <unknown>unknown</unknown>
  </ip-error-counters>
</sfw-stats-service-set-entry>
```

Description Extensive output of IP processing errors.

Contents

<bad-checksum>—Bad checksum.

<fragment-overlap>—IP fragment overlap.

<fragment-reassembly-timeout>—IP fragment reassembly timeout.

<illegal-destination-address>—Illegal destination address.

<illegal-fragment-length>—Illegal IP fragment length.

<illegal-ip-protocol>—Illegal IP protocol number (0 or 255).

<illegal-source-address>—Illegal source address.

<ip-header-length-error>—Minimum IP header length check failures.

<ip-length-error>—IP packet length inconsistencies.

<land-attack>—IP source address same as destination address.

<long-packet>—Reassembled packet exceeds maximum IP length (65,535 bytes).

<non-ipv4>—Non-IPv4 packets.

<ttl-zero>—IP packets received with a TTL value of 0.

<unknown>—Unknown errors.

<l2tp-multilink-clear-entry>

Usage

```
<service-l2tp-multilink-clear-information>
  <l2tp-multilink-clear-entry>
    <l2tp-multilink-bundle-id>l2tp-multilink-bundle-id</l2tp-multilink-bundle-id>
  </l2tp-multilink-clear-entry>
</service-l2tp-multilink-clear-information>
```

Description Multilink information cleared by L2TP.

Contents <l2tp-multilink-bundle-id>—Bundle ID.

<l2tp-multilink-entry>

Usage

```
<services-l2tp-multilink-information>
  <l2tp-multilink-entry>
    <l2tp-multilink-bundle-id>l2tp-multilink-bundle-id</l2tp-multilink-bundle-id>
    <l2tp-multilink-bundle-endpoint>l2tp-multilink-bundle-endpoint
                </l2tp-multilink-bundle-endpoint>
    <l2tp-multilink-bundle-num-links>l2tp-multilink-bundle-num-links
                </l2tp-multilink-bundle-num-links>
    <l2tp-multilink-bundle-mrru-input>l2tp-multilink-bundle-mrru-input
                </l2tp-multilink-bundle-mrru-input>
    <l2tp-multilink-bundle-mrru-output>l2tp-multilink-bundle-mrru-output
                </l2tp-multilink-bundle-mrru-output>
    <l2tp-statistics-since>l2tp-statistics-since</l2tp-statistics-since>
    <l2tp-control-tx-packets>l2tp-control-tx-packets</l2tp-control-tx-packets>
    <l2tp-control-rx-packets>l2tp-control-rx-packets</l2tp-control-rx-packets>
    <l2tp-data-tx-packets>l2tp-data-tx-packets</l2tp-data-tx-packets>
    <l2tp-data-rx-packets>l2tp-data-rx-packets</l2tp-data-rx-packets>
    <l2tp-control-tx-bytes>l2tp-control-tx-bytes</l2tp-control-tx-bytes>
    <l2tp-control-rx-bytes>l2tp-control-rx-bytes</l2tp-control-rx-bytes>
    <l2tp-data-tx-bytes>l2tp-data-tx-bytes</l2tp-data-tx-bytes>
    <l2tp-data-rx-bytes>l2tp-data-rx-bytes</l2tp-data-rx-bytes>
    <l2tp-error-tx-packets>l2tp-error-tx-packets</l2tp-error-tx-packets>
    <l2tp-error-rx-packets>l2tp-error-rx-packets</l2tp-error-rx-packets>
    <l2tp-multilink-links>...</l2tp-multilink-links>
  </l2tp-multilink-entry>
</services-l2tp-multilink-information>
```

Description L2TP multilink information.

Contents <l2tp-control-rx-bytes>—Control receive bytes.

<l2tp-control-rx-packets>—Control receive packets.

<l2tp-control-tx-bytes>—Control transmit bytes.

<l2tp-control-tx-packets>—Control transmit packets.

<l2tp-data-rx-bytes>—Data receive bytes.

<l2tp-data-rx-packets>—Data receive packets.

<l2tp-data-tx-bytes>—Data transmit bytes.

<l2tp-data-tx-packets>—Data transmit packets.

<l2tp-error-rx-packets>—Error receive packets.

<l2tp-error-tx-packets>—Error transmit packets.

<l2tp-multilink-bundle-endpoint>—Bundle endpoint.

<l2tp-multilink-bundle-id>—Bundle ID.

<l2tp-multilink-bundle-mrru-input>—Input MRRU.

<l2tp-multilink-bundle-mrru-output>—Output MRRU.

<l2tp-multilink-bundle-num-links>—Number of links in a bundle.

<l2tp-multilink-links>—L2TP multilink bundle links.

<l2tp-statistics-since>—Statistics since the displayed time.

<l2tp-multilink-links>

Usage

```
<l2tp-multilink-entry>
  <l2tp-multilink-links>
    <l2tp-session-entry>...</l2tp-session-entry>
  </l2tp-multilink-links>
</l2tp-multilink-entry>
```

Description L2TP multilink bundle links.

Contents <l2tp-session-entry>—L2TP session information.

<l2tp-per-tunnel-group-tunnel-table>

Usage

```
<service-l2tp-tunnel-information>
  <l2tp-per-tunnel-group-tunnel-table>
    <tunnel-group-name>tunnel-group-name</tunnel-group-name>
    <interface-name>interface-name</interface-name>
    <l2tp-tunnel-table>...</l2tp-tunnel-table>
  </l2tp-per-tunnel-group-tunnel-table>
</service-l2tp-tunnel-information>
```

Description Tunnel table sorted by tunnel group.

Contents <interface-name>—Name of the adaptive services interface.

<l2tp-tunnel-table>—L2TP tunnel table sorted by tunnel group.

<tunnel-group-name>—Name of the tunnel group.

<l2tp-per-tunnel-session-table>

Usage
```
<service-l2tp-session-information>
  <l2tp-per-tunnel-session-table>
    <tunnel-group-name>tunnel-group-name</tunnel-group-name>
    <interface-name>interface-name</interface-name>
    <l2tp-tunnel-local-id>l2tp-tunnel-local-id</l2tp-tunnel-local-id>
    <l2tp-session-table>...</l2tp-session-table>
  </l2tp-per-tunnel-session-table>
</service-l2tp-session-information>
```

Description Session table sorted by tunnel.

Contents <interface-name>—Name of the adaptive services interface.

<l2tp-session-table>—L2TP session table sorted by tunnel ID.

<l2tp-tunnel-local-id>—Local ID of tunnel.

<tunnel-group-name>—Name of the tunnel group.

<l2tp-session-clear-entry>

Usage
```
<service-l2tp-session-clear-information>
  <l2tp-session-clear-entry>
    <l2tp-session-local-id>l2tp-session-local-id</l2tp-session-local-id>
  </l2tp-session-clear-entry>
</service-l2tp-session-clear-information>
```

Description L2TP cleared session information.

Contents <l2tp-session-local-id>—Local ID of session.

<l2tp-session-entry>

Usage

```
<l2tp-session-table | l2tp-multilink-links>
  <l2tp-session-entry>
    <l2tp-session-local-id>l2tp-session-local-id</l2tp-session-local-id>
    <l2tp-session-remote-id>l2tp-session-remote-id</l2tp-session-remote-id>
    <l2tp-session-remote-ip>l2tp-session-remote-ip</l2tp-session-remote-ip>
    <l2tp-session-local-ip>l2tp-session-local-ip</l2tp-session-local-ip>
    <l2tp-session-state>l2tp-session-state</l2tp-session-state>
    <l2tp-session-bundle-id>l2tp-session-bundle-id</l2tp-session-bundle-id>
    <l2tp-session-user-name>l2tp-session-user-name</l2tp-session-user-name>
    <l2tp-session-own-ip>l2tp-session-own-ip</l2tp-session-own-ip>
    <l2tp-session-peer-ip>l2tp-session-peer-ip</l2tp-session-peer-ip>
    <l2tp-session-local-name>l2tp-session-local-name</l2tp-session-local-name>

<l2tp-session-remote-name>l2tp-session-remote-name</l2tp-session-remote-name>
    <l2tp-session-mode>l2tp-session-mode</l2tp-session-mode>
    <l2tp-session-local-mru>l2tp-session-local-mru</l2tp-session-local-mru>
    <l2tp-session-remote-mru>l2tp-session-remote-mru</l2tp-session-remote-mru>
    <l2tp-session-tx-speed>l2tp-session-tx-speed</l2tp-session-tx-speed>
    <l2tp-session-rx-speed>l2tp-session-rx-speed</l2tp-session-rx-speed>
    <l2tp-session-bearer-type>l2tp-session-bearer-type</l2tp-session-bearer-type>
    <l2tp-session-framing-type>l2tp-session-framing-type
            </l2tp-session-framing-type>
    <l2tp-session-lcp-renegotiation>l2tp-session-lcp-renegotiation
            </l2tp-session-lcp-renegotiation>
    <l2tp-session-authentication>l2tp-session-authentication
            </l2tp-session-authentication>
    <l2tp-session-interface-id>l2tp-session-interface-id
            </l2tp-session-interface-id>
    <l2tp-session-interface-unit>l2tp-session-interface-unit
            </l2tp-session-interface-unit>
    <l2tp-session-call-serial-number>l2tp-session-call-serial-number
            </l2tp-session-call-serial-number>
    <l2tp-session-policer-bandwidth>l2tp-session-policer-bandwidth
            </l2tp-session-policer-bandwidth>
    <l2tp-session-policer-exclude-bandwidth>l2tp-session-policer-exclude-bandwidth
            </l2tp-session-policer-exclude-bandwidth>
    <l2tp-session-policer-burstsize>l2tp-session-policer-burstsize
            </l2tp-session-policer-burstsize>
    <l2tp-session-firewall-filter>l2tp-session-firewall-filter
            </l2tp-session-firewall-filter>
    <l2tp-session-encapsulation-overhead>l2tp-session-encapsulation-overhead
            </l2tp-session-encapsulation-overhead>
    <l2tp-session-cell-overhead>l2tp-session-cell-overhead
            </l2tp-session-cell-overhead>
    <l2tp-session-create-time>l2tp-session-create-time</l2tp-session-create-time>
    <l2tp-statistics-since>l2tp-statistics-since</l2tp-statistics-since>
    <l2tp-control-tx-packets>l2tp-control-tx-packets</l2tp-control-tx-packets>
    <l2tp-control-rx-packets>l2tp-control-rx-packets</l2tp-control-rx-packets>
    <l2tp-data-tx-packets>l2tp-data-tx-packets</l2tp-data-tx-packets>
    <l2tp-data-rx-packets>l2tp-data-rx-packets</l2tp-data-rx-packets>
    <l2tp-control-tx-bytes>l2tp-control-tx-bytes</l2tp-control-tx-bytes>
    <l2tp-control-rx-bytes>l2tp-control-rx-bytes</l2tp-control-rx-bytes>
```

```
        <l2tp-data-tx-bytes>l2tp-data-tx-bytes</l2tp-data-tx-bytes>
        <l2tp-data-rx-bytes>l2tp-data-rx-bytes</l2tp-data-rx-bytes>
        <l2tp-error-tx-packets>l2tp-error-tx-packets</l2tp-error-tx-packets>
        <l2tp-error-rx-packets>l2tp-error-rx-packets</l2tp-error-rx-packets>
        <l2tp-create-time>l2tp-create-time</l2tp-create-time>
        <l2tp-up-time>l2tp-up-time</l2tp-up-time>
        <l2tp-idle-time>l2tp-idle-time</l2tp-idle-time>
      </l2tp-session-entry>
    </l2tp-session-table | l2tp-multilink-links>
```

Description L2TP session information.

Contents <l2tp-control-rx-bytes>—Control receive bytes.

<l2tp-control-rx-packets>—Control receive packets.

<l2tp-control-tx-bytes>—Control transmit bytes.

<l2tp-control-tx-packets>—Control transmit packets.

<l2tp-create-time>—Creation time.

<l2tp-data-rx-bytes>—Data receive bytes.

<l2tp-data-rx-packets>—Data receive packets.

<l2tp-data-tx-bytes>—Data transmit bytes.

<l2tp-data-tx-packets>—Data transmit packets.

<l2tp-error-rx-packets>—Error receive packets.

<l2tp-error-tx-packets>—Error transmit packets.

<l2tp-idle-time>—Idle time.

<l2tp-session-authentication>—Session authentication.

<l2tp-session-bearer-type>—Session bearer type.

<l2tp-session-bundle-id>—Session bundle ID.

<l2tp-session-call-serial-number>—Session call serial number.

<l2tp-session-cell-overhead>—Session cell overhead.

<l2tp-session-create-time>—Session create time.

<l2tp-session-encapsulation-overhead>—Session encapsulation overhead.

<l2tp-session-firewall-filter>—Session firewall filter name.

<l2tp-session-framing-type>—Session framing type.

<l2tp-session-interface-id>—Session interface ID.

<l2tp-session-interface-unit>—Session interface unit.

<l2tp-session-lcp-renegotiation>—Session LCP renegotiation.

<l2tp-session-local-id>—Local ID of session.

<l2tp-session-local-ip>—Local IP address of session.

<l2tp-session-local-mru>—Session local MRU.

<l2tp-session-local-name>—Name of session local end.

<l2tp-session-mode>—Session mode.

<l2tp-session-own-ip>—Local own IP address assigned to session.

<l2tp-session-peer-ip>—IP address assigned to peer for the session.

<l2tp-session-policer-bandwidth>—Session policer bandwidth.

<l2tp-session-policer-burstsize>—Session policer burst size.

<l2tp-session-policer-exclude-bandwidth>—Session policer exclude bandwidth.

<l2tp-session-remote-id>—Remote ID of session.

<l2tp-session-remote-ip>—Remote IP address of session.

<l2tp-session-remote-mru>—Session remote MRU.

<l2tp-session-remote-name>—Name of session remote end.

<l2tp-session-rx-speed>—Session receive speed.

<l2tp-session-state>—Session state.

<l2tp-session-tx-speed>—Session transmit speed.

<l2tp-session-user-name>—Session user name.

<l2tp-statistics-since>—Statistics since the displayed time.

<l2tp-up-time>—Up time.

<l2tp-session-table>

Usage

```
<l2tp-per-tunnel-session-table>
  <l2tp-session-table>
    <l2tp-session-entry>...</l2tp-session-entry>
  </l2tp-session-table>
</l2tp-per-tunnel-session-table>
```

Description L2TP session table sorted by tunnel ID.

Contents <l2tp-session-entry>—L2TP session information.

<l2tp-summary-table>

Usage

```
<service-l2tp-summary-information>
  <l2tp-summary-table>
    <l2tp-tunnels>l2tp-tunnels</l2tp-tunnels>
    <l2tp-sessions>l2tp-sessions</l2tp-sessions>
    <l2tp-error-tx-packets>l2tp-error-tx-packets</l2tp-error-tx-packets>
    <l2tp-error-rx-packets>l2tp-error-rx-packets</l2tp-error-rx-packets>
    <l2tp-control-tx-packets>l2tp-control-tx-packets</l2tp-control-tx-packets>
    <l2tp-control-rx-packets>l2tp-control-rx-packets</l2tp-control-rx-packets>
    <l2tp-interface-error-tx-packets>l2tp-interface-error-tx-packets
            </l2tp-interface-error-tx-packets>
    <l2tp-interface-error-rx-packets>l2tp-interface-error-rx-packets
            </l2tp-interface-error-rx-packets>
    <l2tp-interface-control-tx-packets>l2tp-interface-control-tx-packets
            </l2tp-interface-control-tx-packets>
    <l2tp-interface-control-rx-packets>l2tp-interface-control-rx-packets
            </l2tp-interface-control-rx-packets>
    <l2tp-control-memory-bytes>l2tp-control-memory-bytes
            </l2tp-control-memory-bytes>
    <l2tp-data-tx-packets>l2tp-data-tx-packets</l2tp-data-tx-packets>
    <l2tp-data-rx-packets>l2tp-data-rx-packets</l2tp-data-rx-packets>
    <l2tp-interface-data-tx-packets>l2tp-interface-data-tx-packets
            </l2tp-interface-data-tx-packets>
    <l2tp-interface-data-rx-packets>l2tp-interface-data-rx-packets
            </l2tp-interface-data-rx-packets>
    <l2tp-data-memory-bytes>l2tp-data-memory-bytes</l2tp-data-memory-bytes>
    <l2tp-interface-name>l2tp-interface-name</l2tp-interface-name>
  </l2tp-summary-table>
</service-l2tp-summary-information>
```

Description L2TP summary.

Contents <l2tp-control-memory-bytes>—L2TP control memory (bytes).

<l2tp-control-rx-packets>—Control receive packets.

<l2tp-control-tx-packets>—Control transmit packets.

<l2tp-data-memory-bytes>—L2TP data memory (bytes).

<l2tp-data-rx-packets>—Data receive packets.

<l2tp-data-tx-packets>—Data transmit packets.

<l2tp-error-rx-packets>—Error receive packets.

<l2tp-error-tx-packets>—Error transmit packets.

<l2tp-interface-control-rx-packets>—Control receive packets sorted by interface.

<l2tp-interface-control-tx-packets>—Control transmit packets sorted by interface.

<l2tp-interface-data-rx-packets>—Data receive packets sorted by interface.

<l2tp-interface-data-tx-packets>—Data transmit packets sorted by interface.

<l2tp-interface-error-rx-packets>—Error receive packets sorted by interface.

<l2tp-interface-error-tx-packets>—Error transmit packets sorted by interface.

<l2tp-interface-name>—Name of interface to show summary information.

<l2tp-sessions>—Total number of L2TP sessions.

<l2tp-tunnels>—Total number of L2TP tunnels.

<l2tp-tunnel-clear-entry>

Usage

```
<service-l2tp-tunnel-clear-information>
  <l2tp-tunnel-clear-entry>
    <l2tp-tunnel-local-id>l2tp-tunnel-local-id</l2tp-tunnel-local-id>
  </l2tp-tunnel-clear-entry>
</service-l2tp-tunnel-clear-information>
```

Description L2TP cleared tunnel information.

Contents <l2tp-tunnel-local-id>—Local ID of tunnel.

<l2tp-tunnel-entry>

Usage

```
<l2tp-tunnel-table>
  <l2tp-tunnel-entry>
    <l2tp-tunnel-local-id>l2tp-tunnel-local-id</l2tp-tunnel-local-id>
    <l2tp-tunnel-remote-id>l2tp-tunnel-remote-id</l2tp-tunnel-remote-id>
    <l2tp-tunnel-remote-ip>l2tp-tunnel-remote-ip</l2tp-tunnel-remote-ip>
    <l2tp-tunnel-state>l2tp-tunnel-state</l2tp-tunnel-state>
    <l2tp-tunnel-session-count>l2tp-tunnel-session-count
                </l2tp-tunnel-session-count>
    <l2tp-tunnel-local-ip>l2tp-tunnel-local-ip</l2tp-tunnel-local-ip>
    <l2tp-tunnel-remote-name>l2tp-tunnel-remote-name</l2tp-tunnel-remote-name>
    <l2tp-tunnel-local-name>l2tp-tunnel-local-name</l2tp-tunnel-local-name>
    <l2tp-tunnel-maximum-sessions>l2tp-tunnel-maximum-sessions
                </l2tp-tunnel-maximum-sessions>
    <l2tp-tunnel-window-size>l2tp-tunnel-window-size</l2tp-tunnel-window-size>
    <l2tp-tunnel-hello-interval>l2tp-tunnel-hello-interval
                </l2tp-tunnel-hello-interval>
    <l2tp-tunnel-tos-reflect>l2tp-tunnel-tos-reflect</l2tp-tunnel-tos-reflect>
    <l2tp-statistics-since>l2tp-statistics-since</l2tp-statistics-since>
    <l2tp-control-tx-packets>l2tp-control-tx-packets</l2tp-control-tx-packets>
    <l2tp-control-rx-packets>l2tp-control-rx-packets</l2tp-control-rx-packets>
    <l2tp-data-tx-packets>l2tp-data-tx-packets</l2tp-data-tx-packets>
    <l2tp-data-rx-packets>l2tp-data-rx-packets</l2tp-data-rx-packets>
    <l2tp-control-tx-bytes>l2tp-control-tx-bytes</l2tp-control-tx-bytes>
    <l2tp-control-rx-bytes>l2tp-control-rx-bytes</l2tp-control-rx-bytes>
    <l2tp-data-tx-bytes>l2tp-data-tx-bytes</l2tp-data-tx-bytes>
    <l2tp-data-rx-bytes>l2tp-data-rx-bytes</l2tp-data-rx-bytes>
    <l2tp-error-tx-packets>l2tp-error-tx-packets</l2tp-error-tx-packets>
    <l2tp-error-rx-packets>l2tp-error-rx-packets</l2tp-error-rx-packets>
    <l2tp-create-time>l2tp-create-time</l2tp-create-time>
    <l2tp-up-time>l2tp-up-time</l2tp-up-time>
    <l2tp-idle-time>l2tp-idle-time</l2tp-idle-time>
  </l2tp-tunnel-entry>
</l2tp-tunnel-table>
```

Description L2TP tunnel information.

Contents <l2tp-control-rx-bytes>—Control receive bytes.

<l2tp-control-rx-packets>—Control receive packets.

<l2tp-control-tx-bytes>—Control transmit bytes.

<l2tp-control-tx-packets>—Control transmit packets.

<l2tp-create-time>—Creation time.

<l2tp-data-rx-bytes>—Data receive bytes.

<l2tp-data-rx-packets>—Data receive packets.

<l2tp-data-tx-bytes>—Data transmit bytes.

<l2tp-data-tx-packets>—Data transmit packets.

<l2tp-error-rx-packets>—Error receive packets.

<l2tp-error-tx-packets>—Error transmit packets.

<l2tp-idle-time>—Idle time.

<l2tp-statistics-since>—Statistics since the displayed time.

<l2tp-tunnel-hello-interval>—Tunnel hello interval.

<l2tp-tunnel-local-id>—Local ID of tunnel.

<l2tp-tunnel-local-ip>—Local IP address of session.

<l2tp-tunnel-local-name>—Name of tunnel local end.

<l2tp-tunnel-maximum-sessions>—Maximum number of sessions per tunnel.

<l2tp-tunnel-remote-id>—Remote ID of tunnel.

<l2tp-tunnel-remote-ip>—Remote IP address of tunnel.

<l2tp-tunnel-remote-name>—Name of tunnel remote end.

<l2tp-tunnel-session-count>—Tunnel session count.

<l2tp-tunnel-state>—Tunnel state.

<l2tp-tunnel-tos-reflect>—Tunnel ToS Reflect.

<l2tp-tunnel-window-size>—Tunnel window size.

<l2tp-up-time>—Up time.

<l2tp-tunnel-table>

Usage

```
<l2tp-per-tunnel-group-tunnel-table>
  <l2tp-tunnel-table>
    <l2tp-tunnel-entry>...</l2tp-tunnel-entry>
  </l2tp-tunnel-table>
</l2tp-per-tunnel-group-tunnel-table>
```

Description L2TP tunnel table sorted by tunnel group.

Contents <l2tp-tunnel-entry>—L2TP tunnel information.

<load-balancer-entries>

Usage
```
<lsqinfo-cpu-usage-information>
  <load-balancer-entries>
    <load-balancer-entry>...</load-balancer-entry>
  </load-balancer-entries>
</lsqinfo-cpu-usage-information>
```

Description No documentation is available yet.

Contents <load-balancer-entry>—Load Balancer CPU usage information.

<load-balancer-entry>

Usage
```
<load-balancer-entries>
  <load-balancer-entry>
    <cpu-name>cpu-name</cpu-name>
    <idle>idle</idle>
    <system>system</system>
    <output>output</output>
    <freeback>freeback</freeback>
    <input-1>input-1</input-1>
    <input-2>input-2</input-2>
  </load-balancer-entry>
</load-balancer-entries>
```

Description Load Balancer CPU usage information.

Contents <cpu-name>— CPU name.

<freeback>—Percentage of CPU time taken by Freeback thread.

<idle>—Percentage of CPU time taken by Idle thread.

<input-1>—Percentage of CPU time taken by Input 1 thread.

<input-2>—Percentage of CPU time taken by Input 2 thread.

<output>—Percentage of CPU time taken by Output thread.

<system>—Percentage of CPU time taken by System thread.

<lsqinfo-cpu-usage-information>

Usage

```
<rpc-reply>
  <lsqinfo-cpu-usage-information>
    <cpu-role-name>cpu-role-name</cpu-role-name>
    <one-second-usage>one-second-usage</one-second-usage>
    <five-second-usage>five-second-usage</five-second-usage>
    <fragmenter-entries>...</fragmenter-entries>
    <quality-of-service-entries>...</quality-of-service-entries>
    <sequencer-entries>...</sequencer-entries>
    <load-balancer-entries>...</load-balancer-entries>
  </lsqinfo-cpu-usage-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cpu-role-name>—CPU family name.

<five-second-usage>—CPU usage. 5 second average.

<fragmenter-entries>—No documentation is available yet.

<load-balancer-entries>—No documentation is available yet.

<one-second-usage>—CPU usage. 1 second average.

<quality-of-service-entries>—No documentation is available yet.

<sequencer-entries>—No documentation is available yet.

<maximum-inactivity-time>

Usage

```
<inactivity-timer-entry>
  <maximum-inactivity-time>
    <minimum>minimum</minimum>
    <maximum>maximum</maximum>
    <default>default</default>
  </maximum-inactivity-time>
</inactivity-timer-entry>
```

Description No documentation is available yet.

Contents <default>—Default valid value of maximum inactivity timeout.

<maximum>—Maximum valid value of maximum inactivity timeout.

<minimum>—Minimum valid value of maximum inactivity timeout.

<media-service-entry>

Usage
```
<pgcpd-config>
  <media-service-entry>
    <media-service-name>media-service-name</media-service-name>
    <media-service-nat-pool>media-service-nat-pool</media-service-nat-pool>
  </media-service-entry>
</pgcpd-config>
```

Description No documentation is available yet.

Contents <media-service-name>—No documentation is available yet.

<media-service-nat-pool>—No documentation is available yet.

<media-service-ref-entry>

Usage
```
<virtual-interface-entry | rule-entry>
  <media-service-ref-entry>
    <media-service-ref-name>media-service-ref-name</media-service-ref-name>
  </media-service-ref-entry>
</virtual-interface-entry | rule-entry>
```

Description No documentation is available yet.

Contents <media-service-ref-name>—No documentation is available yet.

<message-counters>

Usage

```
<sip-alg-counters>
  <message-counters>
    <register-new>register-new</register-new>
    <invite-new>invite-new</invite-new>
    <reinvites>reinvites</reinvites>
    <invite-retransmits>invite-retransmits</invite-retransmits>
    <response-provisional>response-provisional</response-provisional>
    <response-invite-ok>response-invite-ok</response-invite-ok>
    <response-non-invite-ok>response-non-invite-ok</response-non-invite-ok>
    <response-redir>response-redir</response-redir>
    <response-request-failure>response-request-failure</response-request-failure>
    <response-server-failure>response-server-failure</response-server-failure>
    <response-global-failure>response-global-failure</response-global-failure>
    <response-invalid>response-invalid</response-invalid>
    <response-retransmits>response-retransmits</response-retransmits>
    <ack-valid>ack-valid</ack-valid>
    <ack-invalid>ack-invalid</ack-invalid>
    <ack-retransmits>ack-retransmits</ack-retransmits>
    <bye-valid>bye-valid</bye-valid>
    <bye-invalid>bye-invalid</bye-invalid>
    <cancel-valid>cancel-valid</cancel-valid>
    <cancel-invalid>cancel-invalid</cancel-invalid>
    <subscribe-valid>subscribe-valid</subscribe-valid>
    <subscribe-invalid>subscribe-invalid</subscribe-invalid>
    <notify-valid>notify-valid</notify-valid>
    <notify-invalid>notify-invalid</notify-invalid>
    <options-valid>options-valid</options-valid>
    <options-invalid>options-invalid</options-invalid>
    <info-valid>info-valid</info-valid>
    <info-invalid>info-invalid</info-invalid>
    <update-valid>update-valid</update-valid>
    <update-invalid>update-invalid</update-invalid>
    <refer-valid>refer-valid</refer-valid>
    <refer-invalid>refer-invalid</refer-invalid>
  </message-counters>
</sip-alg-counters>
```

Description SIP message counters.

Contents <ack-invalid>—Number of invalid ACK messages.

<ack-retransmits>—Number of ACK message retransmissions.

<ack-valid>—Number of valid ACK messages.

<bye-invalid>—Number of invalid BYE messages.

<bye-valid>—Number of valid BYE messages.

<cancel-invalid>—Number of invalid CANCEL messages.

<cancel-valid>—Number of valid CANCEL messages.

<info-invalid>—Number of invalid INFO messages.

<info-valid>—Number of valid INFO messages.

<invite-new>—Number of new INVITE messages.

<invite-retransmits>—Number of INVITE message retransmissions.

<notify-invalid>—Number of invalid NOTIFY messages.

<notify-valid>—Number of valid NOTIFY messages.

<options-invalid>—Number of invalid OPTIONS messages.

<options-valid>—Number of valid OPTIONS messages.

<refer-invalid>—Number of invalid REFER messages.

<refer-valid>—Number of valid REFER messages.

<register-new>—Number of REGISTER messages.

<reinvites>—Number of ReINVITE messages.

<response-global-failure>—Number of global failure (6xx) responses.

<response-invalid>—Number of invalid responses.

<response-invite-ok>—Number of 'OK' responses to INVITE messages.

<response-non-invite-ok>—Number of 'OK' responses to messages other than INVITE.

<response-provisional>—Number of provisional responses.

<response-redir>—Number of redirection (3xx) responses.

<response-request-failure>—Number of request failure (4xx) responses.

<response-retransmits>—Number of response retransmissions.

<response-server-failure>—Number of server failure (5xx) responses.

<subscribe-invalid>—Number of invalid SUBSCRIBE messages.

<subscribe-valid>—Number of valid SUBSCRIBE messages.

<update-invalid>—Number of invalid UPDATE messages.

<update-valid>—Number of valid UPDATE messages.

<new-flow-counters>

Usage

```
<sfw-stats-service-set-entry>
  <new-flow-counters>
    <new-flow-accepts>new-flow-accepts</new-flow-accepts>
    <new-flow-discards>new-flow-discards</new-flow-discards>
    <new-flow-rejects>new-flow-rejects</new-flow-rejects>
  </new-flow-counters>
</sfw-stats-service-set-entry>
```

Description New flow counters.

Contents <new-flow-accepts>—Packets accepted by new flows.

<new-flow-discards>—Packets discarded by new flows.

<new-flow-rejects>—Packets rejected by new flows.

<overload-control-entry>

Usage

```
<pgcpd-active-configuration | gateway-entry>
  <overload-control-entry>
    <queue-limit-percentage>queue-limit-percentage</queue-limit-percentage>
    <reject-new-calls-threshold>reject-new-calls-threshold
                </reject-new-calls-threshold>
    <reject-all-commands-threshold>reject-all-commands-threshold
                </reject-all-commands-threshold>
  </overload-control-entry>
</pgcpd-active-configuration | gateway-entry>
```

Description No documentation is available yet.

Contents <queue-limit-percentage>—No documentation is available yet.

<reject-all-commands-threshold>—No documentation is available yet.

<reject-new-calls-threshold>—No documentation is available yet.

<parser-counters>

Usage
```
<sip-alg-counters>
  <parser-counters>
    <syntax-errors>syntax-errors</syntax-errors>
    <content-errors>content-errors</content-errors>
    <unknown-methods>unknown-methods</unknown-methods>
  </parser-counters>
</sip-alg-counters>
```

Description Parser statistics.

Contents <content-errors>—SIP message content errors.

<syntax-errors>—SIP syntax errors.

<unknown-methods>—SIP unknown methods.

<pgcp-conversation>

Usage
```
<pgcp-per-service-set-conversation>
  <pgcp-conversation>
    <pgcp-flow-table-conv-initiator>pgcp-flow-table-conv-initiator
                </pgcp-flow-table-conv-initiator>
    <pgcp-flow-table-conv-responder>pgcp-flow-table-conv-responder
                </pgcp-flow-table-conv-responder>
    <service-pgcp-flow-table>...</service-pgcp-flow-table>
  </pgcp-conversation>
</pgcp-per-service-set-conversation>
```

Description Stateful firewall conversations.

Contents <pgcp-flow-table-conv-initiator>—Number of initiator flows.

<pgcp-flow-table-conv-responder>—Number of responder flows.

<service-pgcp-flow-table>—Stateful firewall flows.

<pgcp-flow-entry>

Usage

```
<service-pgcp-flow-table>
  <pgcp-flow-entry>
    <pgcp-flow-protocol>pgcp-flow-protocol</pgcp-flow-protocol>
    <pgcp-flow-source-ip>pgcp-flow-source-ip</pgcp-flow-source-ip>
    <pgcp-flow-source-port>pgcp-flow-source-port</pgcp-flow-source-port>
    <pgcp-flow-destination-ip>pgcp-flow-destination-ip</pgcp-flow-destination-ip>
    <pgcp-flow-destination-port>pgcp-flow-destination-port
                </pgcp-flow-destination-port>
    <pgcp-flow-state>pgcp-flow-state</pgcp-flow-state>
    <pgcp-flow-direction>pgcp-flow-direction</pgcp-flow-direction>
    <pgcp-flow-frame-counter>pgcp-flow-frame-counter</pgcp-flow-frame-counter>
    <pgcp-flow-gate-id>pgcp-flow-gate-id</pgcp-flow-gate-id>
    <pgcp-flow-nat>...</pgcp-flow-nat>
    <pgcp-flow-table-byte-count>pgcp-flow-table-byte-count
                </pgcp-flow-table-byte-count>
    <source-routing-instance>source-routing-instance</source-routing-instance>
    <destination-routing-instance>destination-routing-instance
                </destination-routing-instance>
    <pgcp-flow-table-tcp-window-size>pgcp-flow-table-tcp-window-size
                </pgcp-flow-table-tcp-window-size>
    <pgcp-flow-table-tcp-acknowledge>pgcp-flow-table-tcp-acknowledge
                </pgcp-flow-table-tcp-acknowledge>
    <pgcp-flow-table-tcp-tickle>pgcp-flow-table-tcp-tickle
                </pgcp-flow-table-tcp-tickle>
    <pgcp-flow-table-role>pgcp-flow-table-role</pgcp-flow-table-role>
    <pgcp-flow-table-timeout>pgcp-flow-table-timeout</pgcp-flow-table-timeout>
    <pgcp-flow-table-protocol-detail>pgcp-flow-table-protocol-detail
                </pgcp-flow-table-protocol-detail>
    <flow-gate-tman-policing>flow-gate-tman-policing</flow-gate-tman-policing>
    <flow-gate-sdr>flow-gate-sdr</flow-gate-sdr>
    <flow-gate-sdr-mbs>flow-gate-sdr-mbs</flow-gate-sdr-mbs>
    <flow-gate-pdr>flow-gate-pdr</flow-gate-pdr>
    <flow-gate-pdr-mbs>flow-gate-pdr-mbs</flow-gate-pdr-mbs>
  </pgcp-flow-entry>
</service-pgcp-flow-table>
```

Description Flow brief information.

Contents <destination-routing-instance>—Destination routing-instance.

<flow-gate-pdr>—Peak data rate threshold for a gate.

<flow-gate-pdr-mbs>—Maximum pdr burst size limit for a gate.

<flow-gate-sdr>—Sustainable data rate threshold for a gate.

<flow-gate-sdr-mbs>—Maximum sdr burst size limit for a gate.

<flow-gate-tman-policing>—Install/uninstall a traffic management policing for this gate.

<pgcp-flow-destination-ip>—Flow destination IP address.

<pgcp-flow-destination-port>—PGCP Flow destination port.

<pgcp-flow-direction>—PGCP Flow direction.

<pgcp-flow-frame-counter>—Number of frames transmitted.

<pgcp-flow-gate-id>—PGCP gate-id.

<pgcp-flow-nat>—NAT translation.

<pgcp-flow-protocol>—PGCP Flow protocol description.

<pgcp-flow-source-ip>—PGCP Source IP address.

<pgcp-flow-source-port>—PGCP Source port address.

<pgcp-flow-state>—Flow state.

<pgcp-flow-table-byte-count>—PGCP Flow byte count.

<pgcp-flow-table-protocol-detail>—PGCP Flow protocol detail information.

<pgcp-flow-table-role>—Role of flow in conversation.

<pgcp-flow-table-tcp-acknowledge>—PGCP TCP protocol acknowledge.

<pgcp-flow-table-tcp-tickle>—PGCP Time between TCP tickles (seconds).

<pgcp-flow-table-tcp-window-size>—PGCP TCP protocol window size.

<pgcp-flow-table-timeout>—Timeout value of PGCP flow (seconds).

<source-routing-instance>—Source routing-instance.

<pgcp-flow-nat>

Usage

```
<pgcp-flow-entry>
  <pgcp-flow-nat>
    <pgcp-flow-nat-ip>pgcp-flow-nat-ip</pgcp-flow-nat-ip>
    <pgcp-flow-nat-port>pgcp-flow-nat-port</pgcp-flow-nat-port>
    <pgcp-flow-translated-ip>pgcp-flow-translated-ip</pgcp-flow-translated-ip>
    <pgcp-flow-translated-port>pgcp-flow-translated-port
                </pgcp-flow-translated-port>
  </pgcp-flow-nat>
</pgcp-flow-entry>
```

Description NAT translation.

Contents <pgcp-flow-nat-ip>—PGCP NAT IP address.

<pgcp-flow-nat-port>—PGCP NAT port.

<pgcp-flow-translated-ip>—Translated PGCP IP address.

<pgcp-flow-translated-port>—Translated PGCP port.

<pgcp-per-service-set-conversation>

Usage

```
<service-pgcp-conversation-information>
  <pgcp-per-service-set-conversation>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <pgcp-conversation>...</pgcp-conversation>
  </pgcp-per-service-set-conversation>
</service-pgcp-conversation-information>
```

Description Show conversations.

Contents <interface-name>—Name of the adaptive services interface.

<pgcp-conversation>—Stateful firewall conversations.

<service-set-name>—Name of the service set.

<pgcp-per-service-set-flow-table>

Usage

```
<service-pgcp-flow-table-information>
  <pgcp-per-service-set-flow-table>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <service-pgcp-flow-table>...</service-pgcp-flow-table>
  </pgcp-per-service-set-flow-table>
</service-pgcp-flow-table-information>
```

Description Flows sorted by service set.

Contents <interface-name>—Name of the adaptive services interface.

<service-pgcp-flow-table>—Stateful firewall flows.

<service-set-name>—Name of the service set.

<pgcpd-active-configuration>

Usage

```
<rpc-reply>
  <pgcpd-active-configuration>
    <virtual-interface-entry>...</virtual-interface-entry>
    <controller-entry>...</controller-entry>
    <h248-timers-entry>...</h248-timers-entry>
    <h248-options-entry>...</h248-options-entry>
    <base-root-entry>...</base-root-entry>
    <h248-segmentation-properties-entry>...</h248-segmentation-properties-entry>
    <h248-diffserv-entry>...</h248-diffserv-entry>
    <h248-notification-behavior-entry>...</h248-notification-behavior-entry>
    <h248-application-data-inactivity-detection-entry>...
                </h248-application-data-inactivity-detection-entry>
    <h248-event-timestamp-notification-entry>...
                </h248-event-timestamp-notification-entry>
    <inactivity-timer-entry>...</inactivity-timer-entry>
    <fast-update-filters-entry>...</fast-update-filters-entry>
    <overload-control-entry>...</overload-control-entry>
    <gateway-entry>...</gateway-entry>
    <rule-ref-entry>...</rule-ref-entry>
    <rule-entry>...</rule-entry>
    <service-pic-entry>...</service-pic-entry>
    <service-set-entry>...</service-set-entry>
    <firewall-entry>...</firewall-entry>
    <pgcpd-config>...</pgcpd-config>
  </pgcpd-active-configuration>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<base-root-entry>—Array of h248 base root properties.

<controller-entry>—No documentation is available yet.

<fast-update-filters-entry>—Firewall filters limitation.

<firewall-entry>—No documentation is available yet.

<gateway-entry>—No documentation is available yet.

<h248-application-data-inactivity-detection-entry>—No documentation is available yet.

<h248-diffserv-entry>—No documentation is available yet.

<h248-event-timestamp-notification-entry>—No documentation is available yet.

<h248-notification-behavior-entry>—No documentation is available yet.

<h248-options-entry>—No documentation is available yet.

<h248-segmentation-properties-entry>—Array of h248 segmentation properties.

<h248-timers-entry>—No documentation is available yet.

<inactivity-timer-entry>—No documentation is available yet.

<overload-control-entry>—No documentation is available yet.

<pgcpd-config>—No documentation is available yet.

<rule-entry>—No documentation is available yet.

<rule-ref-entry>—No documentation is available yet.

<service-pic-entry>—No documentation is available yet.

<service-set-entry>—No documentation is available yet.

<virtual-interface-entry>—No documentation is available yet.

<pgcpd-config>

Usage

```
<pgcpd-active-configuration>
  <pgcpd-config>
    <media-service-entry>...</media-service-entry>
    <virtual-interface-entry>...</virtual-interface-entry>
    <gateway-entry>...</gateway-entry>
    <rule-entry>...</rule-entry>
    <service-set-entry>...</service-set-entry>
    <service-pic-entry>...</service-pic-entry>
    <firewall-entry>...</firewall-entry>
  </pgcpd-config>
</pgcpd-active-configuration>
```

Description No documentation is available yet.

Contents <firewall-entry>—No documentation is available yet.

<gateway-entry>—No documentation is available yet.

<media-service-entry>—No documentation is available yet.

<rule-entry>—No documentation is available yet.

<service-pic-entry>—No documentation is available yet.

<service-set-entry>—No documentation is available yet.

<virtual-interface-entry>—No documentation is available yet.

<quality-of-service-entries>

Usage
```
<lsqinfo-cpu-usage-information>
  <quality-of-service-entries>
    <quality-of-service-entry>...</quality-of-service-entry>
  </quality-of-service-entries>
</lsqinfo-cpu-usage-information>
```

Description No documentation is available yet.

Contents <quality-of-service-entry>—QoS CPU usage information.

<quality-of-service-entry>

Usage
```
<quality-of-service-entries>
  <quality-of-service-entry>
    <cpu-name>cpu-name</cpu-name>
    <idle>idle</idle>
    <timer>timer</timer>
    <system>system</system>
    <output>output</output>
    <input>input</input>
    <fragment-output>fragment-output</fragment-output>
    <bypass-output>bypass-output</bypass-output>
    <free-frame>free-frame</free-frame>
  </quality-of-service-entry>
</quality-of-service-entries>
```

Description QoS CPU usage information.

Contents <bypass-output>—Percentage of CPU time taken by Bypass Output thread.

<cpu-name>— CPU name.

<fragment-output>—Percentage of CPU time taken by Fragment Output thread.

<free-frame>—Percentage of CPU time taken by Free Frame thread.

<idle>—Percentage of CPU time taken by Idle thread.

<input>—Percentage of CPU time taken by Input thread.

<output>—Percentage of CPU time taken by Output thread.

<system>—Percentage of CPU time taken by System thread.

<timer>—Percentage of CPU time taken by Timer thread.

<radius-accounting-server-information-entry>

Usage

```
<services-l2tp-radius-accounting-servers-information |
services-l2tp-radius-authentication-accounting-servers-information>
  <radius-accounting-server-information-entry>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-state>radius-server-state</radius-server-state>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-server-retry-count>radius-server-retry-count
                </radius-server-retry-count>
    <radius-server-timeout>radius-server-timeout</radius-server-timeout>
    <radius-server-pending-requests>radius-server-pending-requests
                </radius-server-pending-requests>
    <radius-server-maximum-sessions>radius-server-maximum-sessions
                </radius-server-maximum-sessions>
    <radius-server-dead-time>radius-server-dead-time</radius-server-dead-time>
    <radius-server-secret-type>radius-server-secret-type
                </radius-server-secret-type>
  </radius-accounting-server-information-entry>
</services-l2tp-radius-accounting-servers-information |
services-l2tp-radius-authentication-accounting-servers-information>
```

Description RADIUS accounting server information entry sorted by IP address.

Contents <radius-server-dead-time>—Server dead time value in seconds.

<radius-server-ip-address>—Server IP address.

<radius-server-maximum-sessions>—Server maximum allowed sessions.

<radius-server-pending-requests>—Server number of requests pending.

<radius-server-retry-count>—Server retry count.

<radius-server-secret-type>—Server secret type.

<radius-server-state>—Server state.

<radius-server-timeout>—Server timeout value in seconds.

<radius-server-udp-port>—Server UDP port.

<radius-accounting-statistic-information-entry>

Usage

```
<services-l2tp-radius-accounting-statistics-information |
services-l2tp-radius-authentication-accounting-statistics-information>
  <radius-accounting-statistic-information-entry>
    <radius-server-statistics-entry-header>radius-server-statistics-entry-header
        </radius-server-statistics-entry-header>
    <radius-server-profile-name>radius-server-profile-name
        </radius-server-profile-name>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-statistic-requests>radius-statistic-requests
        </radius-statistic-requests>
    <radius-statistic-start-requests>radius-statistic-start-requests
        </radius-statistic-start-requests>
    <radius-statistic-interim-requests>radius-statistic-interim-requests
        </radius-statistic-interim-requests>
    <radius-statistic-stop-requests>radius-statistic-stop-requests
        </radius-statistic-stop-requests>
    <radius-statistic-rollover-requests>radius-statistic-rollover-requests
        </radius-statistic-rollover-requests>
    <radius-statistic-retransmissions>radius-statistic-retransmissions
        </radius-statistic-retransmissions>
    <radius-statistic-responses>radius-statistic-responses
        </radius-statistic-responses>
    <radius-statistic-start-responses>radius-statistic-start-responses
        </radius-statistic-start-responses>
    <radius-statistic-interim-responses>radius-statistic-interim-responses
        </radius-statistic-interim-responses>
    <radius-statistic-stop-responses>radius-statistic-stop-responses
        </radius-statistic-stop-responses>
    <radius-statistic-malformed-responses>radius-statistic-malformed-responses
        </radius-statistic-malformed-responses>
    <radius-statistic-bad-authenticators>radius-statistic-bad-authenticators
        </radius-statistic-bad-authenticators>
    <radius-statistic-requests-pending>radius-statistic-requests-pending
        </radius-statistic-requests-pending>
    <radius-statistic-request-timeouts>radius-statistic-request-timeouts
        </radius-statistic-request-timeouts>
    <radius-statistic-unknown-responses>radius-statistic-unknown-responses
        </radius-statistic-unknown-responses>
    <radius-statistic-packets-dropped>radius-statistic-packets-dropped
        </radius-statistic-packets-dropped>
  </radius-accounting-statistic-information-entry>
</services-l2tp-radius-accounting-statistics-information |
services-l2tp-radius-authentication-accounting-statistics-information>
```

Description RADIUS accounting statistic entry sorted by IP address.

Contents <radius-server-ip-address>—Server IP address.

<radius-server-profile-name>—Server profile access name.

<radius-server-statistics-entry-header>—Server statistics entry header.

<radius-server-udp-port>—Server UDP port.

<radius-statistic-bad-authenticators>—Bad authenticators count.

<radius-statistic-interim-requests>—Interim requests count.

<radius-statistic-interim-responses>—Interim responses count.

<radius-statistic-malformed-responses>—Malformed responses count.

<radius-statistic-packets-dropped>—Packets dropped count.

<radius-statistic-request-timeouts>—Request timeouts count.

<radius-statistic-requests>—Requests count.

<radius-statistic-requests-pending>—Requests pending count.

<radius-statistic-responses>—Responses count.

<radius-statistic-retransmissions>—Retransmissions count.

<radius-statistic-rollover-requests>—Rollover requests count.

<radius-statistic-start-requests>—Start requests count.

<radius-statistic-start-responses>—Start responses count.

<radius-statistic-stop-requests>—Stop requests count.

<radius-statistic-stop-responses>—Stop responses count.

<radius-statistic-unknown-responses>—Unknown responses count.

<radius-authentication-server-information-entry>

Usage

```
<services-l2tp-radius-authentication-servers-information |
services-l2tp-radius-authentication-accounting-servers-information>
  <radius-authentication-server-information-entry>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-state>radius-server-state</radius-server-state>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-server-retry-count>radius-server-retry-count
                </radius-server-retry-count>
    <radius-server-timeout>radius-server-timeout</radius-server-timeout>
    <radius-server-pending-requests>radius-server-pending-requests
                </radius-server-pending-requests>
    <radius-server-maximum-sessions>radius-server-maximum-sessions
                </radius-server-maximum-sessions>
    <radius-server-dead-time>radius-server-dead-time</radius-server-dead-time>
    <radius-server-secret-type>radius-server-secret-type
                </radius-server-secret-type>
  </radius-authentication-server-information-entry>
</services-l2tp-radius-authentication-servers-information |
services-l2tp-radius-authentication-accounting-servers-information>
```

Description RADIUS authentication server information entry sorted by IP address.

Contents <radius-server-dead-time>—Server dead time value in seconds.

<radius-server-ip-address>—Server IP address.

<radius-server-maximum-sessions>—Server maximum allowed sessions.

<radius-server-pending-requests>—Server number of requests pending.

<radius-server-retry-count>—Server retry count.

<radius-server-secret-type>—Server secret type.

<radius-server-state>—Server state.

<radius-server-timeout>—Server timeout value in seconds.

<radius-server-udp-port>—Server UDP port.

<radius-authentication-statistic-information-entry>

Usage

```
<services-l2tp-radius-authentication-statistics-information |
services-l2tp-radius-authentication-accounting-statistics-information>
  <radius-authentication-statistic-information-entry>
    <radius-server-statistics-entry-header>radius-server-statistics-entry-header
            </radius-server-statistics-entry-header>
    <radius-server-profile-name>radius-server-profile-name
            </radius-server-profile-name>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-statistic-access-requests>radius-statistic-access-requests
            </radius-statistic-access-requests>
    <radius-statistic-rollover-requests>radius-statistic-rollover-requests
            </radius-statistic-rollover-requests>
    <radius-statistic-retransmissions>radius-statistic-retransmissions
            </radius-statistic-retransmissions>
    <radius-statistic-access-accepts>radius-statistic-access-accepts
            </radius-statistic-access-accepts>
    <radius-statistic-access-rejects>radius-statistic-access-rejects
            </radius-statistic-access-rejects>
    <radius-statistic-access-challenges>radius-statistic-access-challenges
            </radius-statistic-access-challenges>
    <radius-statistic-malformed-responses>radius-statistic-malformed-responses
            </radius-statistic-malformed-responses>
    <radius-statistic-bad-authenticators>radius-statistic-bad-authenticators
            </radius-statistic-bad-authenticators>
    <radius-statistic-requests-pending>radius-statistic-requests-pending
            </radius-statistic-requests-pending>
    <radius-statistic-request-timeouts>radius-statistic-request-timeouts
            </radius-statistic-request-timeouts>
    <radius-statistic-unknown-responses>radius-statistic-unknown-responses
            </radius-statistic-unknown-responses>
    <radius-statistic-packets-dropped>radius-statistic-packets-dropped
            </radius-statistic-packets-dropped>
  </radius-authentication-statistic-information-entry>
</services-l2tp-radius-authentication-statistics-information |
services-l2tp-radius-authentication-accounting-statistics-information>
```

Description RADIUS authentication statistic entry sorted by IP address.

Contents <radius-server-ip-address>—Server IP address.

<radius-server-profile-name>—Server profile access name.

<radius-server-statistics-entry-header>—Server statistics entry header.

<radius-server-udp-port>—Server UDP port.

<radius-statistic-access-accepts>—Access accepts count.

<radius-statistic-access-challenges>—Access challenges count.

<radius-statistic-access-rejects>—Access rejects count.

<radius-statistic-access-requests>—Access requests count.

<radius-statistic-bad-authenticators>—Bad authenticators count.

<radius-statistic-malformed-responses>—Malformed responses count.

<radius-statistic-packets-dropped>—Packets dropped count.

<radius-statistic-request-timeouts>—Request timeouts count.

<radius-statistic-requests-pending>—Requests pending count.

<radius-statistic-retransmissions>—Retransmissions count.

<radius-statistic-rollover-requests>—Rollover requests count.

<radius-statistic-unknown-responses>—Unknown responses count.

<radius-profile-access-test-detail-result>

Usage

```
<rpc-reply>
  <radius-profile-access-test-detail-result>
    <radius-profile-name>radius-profile-name</radius-profile-name>
    <radius-client-user-name>radius-client-user-name</radius-client-user-name>
    <radius-client-password>radius-client-password</radius-client-password>
    <radius-profile-num-servers>radius-profile-num-servers
            </radius-profile-num-servers>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-server-source-address>radius-server-source-address
            </radius-server-source-address>
    <radius-server-timeout>radius-server-timeout</radius-server-timeout>
    <radius-server-retry-count>radius-server-retry-count
            </radius-server-retry-count>
    <radius-server-secret>radius-server-secret</radius-server-secret>
    <radius-server-status>radius-server-status</radius-server-status>
    <radius-server-attempts>radius-server-attempts</radius-server-attempts>
    <radius-server-attribute-name>radius-server-attribute-name
            </radius-server-attribute-name>
    <radius-server-attribute-len>radius-server-attribute-len
            </radius-server-attribute-len>
    <radius-server-attribute-value>radius-server-attribute-value
            </radius-server-attribute-value>
  </radius-profile-access-test-detail-result>
</rpc-reply>
```

Description RADIUS server acccess test detail.

Contents <radius-client-password>—Session password.

<radius-client-user-name>—Session user name.

<radius-profile-name>—Access profile name.

<radius-profile-num-servers>—Access profile num servers.

<radius-server-attempts>—Access profile connection attemps.

<radius-server-attribute-len>—Access radius attribute length.

<radius-server-attribute-name>—Access radius attribute name.

<radius-server-attribute-value>—Access radius attribute value.

<radius-server-ip-address>—Server IP address.

<radius-server-retry-count>—Server retry count.

<radius-server-secret>—Radius shared secret.

<radius-server-source-address>—Source IP address.

<radius-server-status>—Server status.

<radius-server-timeout>—Server timeout value in seconds.

<radius-server-udp-port>—Server UDP port.

<radius-profile-access-test-result>

Usage

```
<rpc-reply>
  <radius-profile-access-test-result>
    <radius-profile-name>radius-profile-name</radius-profile-name>
    <radius-client-user-name>radius-client-user-name</radius-client-user-name>
    <radius-client-password>radius-client-password</radius-client-password>
    <radius-profile-num-servers>radius-profile-num-servers
            </radius-profile-num-servers>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-server-source-address>radius-server-source-address
            </radius-server-source-address>
    <radius-server-timeout>radius-server-timeout</radius-server-timeout>
    <radius-server-retry-count>radius-server-retry-count
            </radius-server-retry-count>
    <radius-server-secret>radius-server-secret</radius-server-secret>
    <radius-server-status>radius-server-status</radius-server-status>
    <radius-server-attempts>radius-server-attempts</radius-server-attempts>
  </radius-profile-access-test-result>
</rpc-reply>
```

Description RADIUS server acccess test.

Contents <radius-client-password>—Session password.

<radius-client-user-name>—Session user name.

<radius-profile-name>—Access profile name.

<radius-profile-num-servers>—Access profile num servers.

<radius-server-attempts>—Access profile connection attemps.

<radius-server-ip-address>—Server IP address.

<radius-server-retry-count>—Server retry count.

<radius-server-secret>—Radius shared secret.

<radius-server-source-address>—Source IP address.

<radius-server-status>—Server status.

<radius-server-timeout>—Server timeout value in seconds.

<radius-server-udp-port>—Server UDP port.

<radius-server-access-test-result>

Usage

```
<rpc-reply>
  <radius-server-access-test-result>
    <radius-server-ip-address>radius-server-ip-address</radius-server-ip-address>
    <radius-server-udp-port>radius-server-udp-port</radius-server-udp-port>
    <radius-server-source-address>radius-server-source-address
                </radius-server-source-address>
    <radius-server-timeout>radius-server-timeout</radius-server-timeout>
    <radius-server-retry-count>radius-server-retry-count
                </radius-server-retry-count>
    <radius-server-secret>radius-server-secret</radius-server-secret>
    <radius-client-user-name>radius-client-user-name</radius-client-user-name>
    <radius-client-password>radius-client-password</radius-client-password>
    <radius-server-status>radius-server-status</radius-server-status>
  </radius-server-access-test-result>
</rpc-reply>
```

Description RADIUS server acccess test.

Contents <radius-client-password>—Session password.

<radius-client-user-name>—Session user name.

<radius-server-ip-address>—Server IP address.

<radius-server-retry-count>—Server retry count.

<radius-server-secret>—Radius shared secret.

<radius-server-source-address>—Source IP address.

<radius-server-status>—Server status.

<radius-server-timeout>—Server timeout value in seconds.

<radius-server-udp-port>—Server UDP port.

<restart-pgcp-service-information>

Usage

```
<rpc-reply>
  <restart-pgcp-service-information>
    <gateway-name>gateway-name</gateway-name>
    <platform>platform</platform>
    <process-id>process-id</process-id>
  </restart-pgcp-service-information>
</rpc-reply>
```

Description Restarted pgcp process information.

Contents <gateway-name>—No documentation is available yet.

<platform>—No documentation is available yet.

<process-id>—No documentation is available yet.

<rule-entry>

Usage
```
<pgcpd-active-configuration | pgcpd-config>
  <rule-entry>
    <rule-name>rule-name</rule-name>
    <rule-gateway-name>rule-gateway-name</rule-gateway-name>
    <media-service-ref-entry>...</media-service-ref-entry>
  </rule-entry>
</pgcpd-active-configuration | pgcpd-config>
```

Description No documentation is available yet.

Contents <media-service-ref-entry>—No documentation is available yet.

<rule-gateway-name>—No documentation is available yet.

<rule-name>—No documentation is available yet.

<rule-ref-entry>

Usage
```
<pgcpd-active-configuration | service-set-entry>
  <rule-ref-entry>
    <rule-ref-name>rule-ref-name</rule-ref-name>
  </rule-ref-entry>
</pgcpd-active-configuration | service-set-entry>
```

Description No documentation is available yet.

Contents <rule-ref-name>—No documentation is available yet.

<sequencer-entries>

Usage
```
<lsqinfo-cpu-usage-information>
  <sequencer-entries>
    <sequencer-entry>...</sequencer-entry>
  </sequencer-entries>
</lsqinfo-cpu-usage-information>
```

Description No documentation is available yet.

Contents <sequencer-entry>—Sequencer CPU usage information.

<*sequencer-entry*>

Usage

```
<sequencer-entries>
  <sequencer-entry>
    <cpu-name>cpu-name</cpu-name>
    <idle>idle</idle>
    <system>system</system>
    <input-lfi>input-lfi</input-lfi>
    <input-fragments>input-fragments</input-fragments>
    <output-fragments>output-fragments</output-fragments>
    <output-retry>output-retry</output-retry>
  </sequencer-entry>
</sequencer-entries>
```

Description Sequencer CPU usage information.

Contents <cpu-name>— CPU name.

<idle>—Percentage of CPU time taken by Idle thread.

<input-fragments>—Percentage of CPU time taken by Input Fragments thread.

<input-lfi>—Percentage of CPU time taken by Input LFI thread.

<output-fragments>—Percentage of CPU time taken by Output Fragments thread.

<output-retry>—Percentage of CPU time taken by Output Retry thread.

<system>—Percentage of CPU time taken by System thread.

<*service-cos-statistics-entry*>

Usage

```
<service-cos-statistics-information>
  <service-cos-statistics-entry>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <cos-stats-service-set-dscp-information>...
                </cos-stats-service-set-dscp-information>
    <cos-stats-service-set-forwarding-class-information>...
                </cos-stats-service-set-forwarding-class-information>
  </service-cos-statistics-entry>
</service-cos-statistics-information>
```

Description Class of service statistics entry.

Contents <cos-stats-service-set-dscp-information>—No documentation is available yet.

<cos-stats-service-set-forwarding-class-information>—No documentation is available yet.

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-cos-statistics-information>

Usage
```
<rpc-reply>
  <service-cos-statistics-information>
    <service-cos-statistics-entry>...</service-cos-statistics-entry>
  </service-cos-statistics-information>
</rpc-reply>
```

Description Class of service statistics information.

Contents <service-cos-statistics-entry>—Class of service statistics entry.

<service-crtp-flow-table>

Usage
```
<crtp-per-interface-flow-table>
  <service-crtp-flow-table>
    <crtp-flow-entry>...</crtp-flow-entry>
  </service-crtp-flow-table>
</crtp-per-interface-flow-table>
```

Description CRTP flows.

Contents <crtp-flow-entry>—CRTP flow information.

<service-crtp-flow-table-information>

Usage
```
<rpc-reply>
  <service-crtp-flow-table-information>
    <crtp-per-interface-flow-table>...</crtp-per-interface-flow-table>
  </service-crtp-flow-table-information>
</rpc-reply>
```

Description CRTP flows sorted by interface name.

Contents <crtp-per-interface-flow-table>—CRTP flows sorted by interface.

<service-identification-statistics>

Usage

```
<service-identification-statistics-information>
  <service-identification-statistics>
    <interface-name>interface-name</interface-name>
    <interfaces>interfaces</interfaces>
    <packets>packets</packets>
    <bytes>bytes</bytes>
    <errored-packets>errored-packets</errored-packets>
    <errored-bytes>errored-bytes</errored-bytes>
    <packet-processing-error>packet-processing-error</packet-processing-error>
    <errored-packets-tcp-malformed>errored-packets-tcp-malformed
            </errored-packets-tcp-malformed>
    <errored-packets-wap-invalid-transaction>errored-packets-wap-invalid-transaction
            </errored-packets-wap-invalid-transaction>
    <errored-packets-wap-transaction-in-error>errored-packets-wap-transaction-in-error
            </errored-packets-wap-transaction-in-error>
    <errored-packets-http-transaction-in-error>errored-packets-http-transaction-in-error
            </errored-packets-http-transaction-in-error>
    <header-examination-packets>header-examination-packets
            </header-examination-packets>

<header-examination-bytes>header-examination-bytes</header-examination-bytes>
    <header-examination-flow>header-examination-flow</header-examination-flow>
    <header-examination-flow-matched>header-examination-flow-matched
            </header-examination-flow-matched>
    <header-examination-protocol-required>header-examination-protocol-required
            </header-examination-protocol-required>

<header-examination-http-protocol-required>header-examination-http-protocol-required
            </header-examination-http-protocol-required>

<header-examination-wap-protocol-required>header-examination-wap-protocol-required
            </header-examination-wap-protocol-required>
    <protocol-inspected-flow>protocol-inspected-flow</protocol-inspected-flow>
    <protocol-inspection-flow>protocol-inspection-flow</protocol-inspection-flow>
    <protocol-inspection-packets>protocol-inspection-packets
            </protocol-inspection-packets>
    <protocol-inspection-bytes>protocol-inspection-bytes
            </protocol-inspection-bytes>

<protocol-inspection-flow-protocol-identified>protocol-inspection-flow-protocol-identified
            </protocol-inspection-flow-protocol-identified>
    <protocol-inspection-http-uri>protocol-inspection-http-uri
            </protocol-inspection-http-uri>
    <protocol-inspection-http-uri-matched>protocol-inspection-http-uri-matched
            </protocol-inspection-http-uri-matched>
    <protocol-inspection-wap-uri>protocol-inspection-wap-uri
            </protocol-inspection-wap-uri>
    <protocol-inspection-wap-uri-matched>protocol-inspection-wap-uri-matched
            </protocol-inspection-wap-uri-matched>
    <wap-transaction-created>wap-transaction-created</wap-transaction-created>

<wap-transaction-maximum>wap-transaction-maximum</wap-transaction-maximum>
```

```
        <wap-transaction-freed>wap-transaction-freed</wap-transaction-freed>
        <wap-transaction-idle-freed>wap-transaction-idle-freed
                </wap-transaction-idle-freed>
        <http-transaction-created>http-transaction-created</http-transaction-created>

    <http-transaction-maximum>http-transaction-maximum</http-transaction-maximum>
        <http-transaction-freed>http-transaction-freed</http-transaction-freed>
        <http-transaction-idle-freed>http-transaction-idle-freed
                </http-transaction-idle-freed>
        <uri-processing-error>uri-processing-error</uri-processing-error>
        <uri-error-failed-to-process>uri-error-failed-to-process
                </uri-error-failed-to-process>
        <uri-error-too-long>uri-error-too-long</uri-error-too-long>
        <transaction-error-failed-to-parse>transaction-error-failed-to-parse
                </transaction-error-failed-to-parse>
        <uri-error-no-system-resources>uri-error-no-system-resources
                </uri-error-no-system-resources>
        <header-examination-failed-configuration>header-examination-failed-configuration
                </header-examination-failed-configuration>
        <uri-examination-failed-configuration>uri-examination-failed-configuration
                </uri-examination-failed-configuration>
      </service-identification-statistics>
    </service-identification-statistics-information>
```

Description Statistics for the service-identification service.

Contents <bytes>—Total bytes for all packets processed by the service-identification service.

<errored-bytes>—Total bytes for all packets errored by the service-identification service.

<errored-packets>—Packets errored by the service-identification service in processing.

<errored-packets-http-transaction-in-error>—HTTP packets errored because the transaction is in error.

<errored-packets-tcp-malformed>—TCP packets errored because they were malformed.

<errored-packets-wap-invalid-transaction>—WAP packets errored for referencing an invalid transaction.

<errored-packets-wap-transaction-in-error>—WAP packets errored because the transaction is in error.

<header-examination-bytes>—Total bytes for all packets processed by header examination.

<header-examination-failed-configuration>—Number of header examinations failing due to configuration error.

<header-examination-flow>—Total flows examined by header examination.

<header-examination-flow-matched>—Total flows that matched a header

examination rule.

<header-examination-http-protocol-required>—Flows identified as possible HTTP flows by header examination rules.

<header-examination-packets>—Packets processed by header examination.

<header-examination-protocol-required>—Flows identified as requiring protocol inspection.

<header-examination-wap-protocol-required>—Flows identified as possible WAP flows by header examination rules.

<http-transaction-created>—HTTP transaction sessions created.

<http-transaction-freed>—HTTP transaction sessions freed.

<http-transaction-idle-freed>—HTTP transaction sessions freed by idle clean-up.

<http-transaction-maximum>—Peak HTTP transaction sessions.

<interface-name>—Name of the adaptive services interface.

<interfaces>—Total number of interfaces summarized.

<packet-processing-error>—Total for all packet-processing errors.

<packets>—Total packets processed by service.

<protocol-inspected-flow>—Total flows that have been protocol inspected.

<protocol-inspection-bytes>—Total bytes for all packets processed by protocol inspection.

<protocol-inspection-flow>—Total flows currently undergoing protocol inspection.

<protocol-inspection-flow-protocol-identified>—Total flows that have been protocol-identified by protocol inspection.

<protocol-inspection-http-uri>—HTTP URI by protocol inspection.

<protocol-inspection-http-uri-matched>—HTTP URI that matched a URI rule.

<protocol-inspection-packets>—Packets processed by protocol inspection.

<protocol-inspection-wap-uri>—WAP URI by protocol inspection.

<protocol-inspection-wap-uri-matched>—WAP URI that matched a URI rule.

<transaction-error-failed-to-parse>—Failures to parse a transaction.

<uri-error-failed-to-process>—Failures to process a URI due to internal error.

<uri-error-no-system-resources>—Failures to process a transaction or URI due to lack of resources.

<uri-error-too-long>—Failures to process a URI due to maximum length exceeded.

<uri-examination-failed-configuration>—Number of URI examinations failing due to configuration error.

<uri-processing-error>—Total for all URI processing errors.

<wap-transaction-created>—WAP transaction sessions created.

<wap-transaction-freed>—WAP transaction sessions freed.

<wap-transaction-idle-freed>—WAP transaction sessions freed by idle clean-up.

<wap-transaction-maximum>—Peak WAP transaction sessions.

<service-identification-statistics-information>

Usage
```
<rpc-reply>
  <service-identification-statistics-information>
    <service-identification-statistics>...</service-identification-statistics>
  </service-identification-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <service-identification-statistics>—Statistics for the service-identification service.

<service-ids-flow-table-information>

Usage
```
<rpc-reply>
  <service-ids-flow-table-information>
    <ids-show-summary>...</ids-show-summary>
    <ids-per-service-set-flow-table>...</ids-per-service-set-flow-table>
  </service-ids-flow-table-information>
</rpc-reply>
```

Description IDS table.

Contents <ids-per-service-set-flow-table>—IDS table sorted by service set.

<ids-show-summary>—IDS table summary.

<service-l2tp-multilink-clear-information>

Usage
```
<rpc-reply>
  <service-l2tp-multilink-clear-information>
    <l2tp-multilink-clear-entry>...</l2tp-multilink-clear-entry>
  </service-l2tp-multilink-clear-information>
</rpc-reply>
```

Description Multilink information cleared by L2TP.

Contents <l2tp-multilink-clear-entry>—Multilink information cleared by L2TP.

<service-l2tp-session-clear-information>

Usage
```
<rpc-reply>
  <service-l2tp-session-clear-information>
    <l2tp-session-clear-entry>...</l2tp-session-clear-entry>
  </service-l2tp-session-clear-information>
</rpc-reply>
```

Description L2TP cleared session information.

Contents <l2tp-session-clear-entry>—L2TP cleared session information.

<service-l2tp-session-information>

Usage
```
<rpc-reply>
  <service-l2tp-session-information>
    <l2tp-per-tunnel-session-table>...</l2tp-per-tunnel-session-table>
  </service-l2tp-session-information>
</rpc-reply>
```

Description L2TP session information.

Contents <l2tp-per-tunnel-session-table>—Session table sorted by tunnel.

<service-l2tp-summary-information>

Usage
```
<rpc-reply>
  <service-l2tp-summary-information>
    <l2tp-summary-table>...</l2tp-summary-table>
  </service-l2tp-summary-information>
</rpc-reply>
```

Description L2TP summary information.

Contents <l2tp-summary-table>—L2TP summary.

<service-l2tp-tunnel-clear-information>

Usage
```
<rpc-reply>
  <service-l2tp-tunnel-clear-information>
    <l2tp-tunnel-clear-entry>...</l2tp-tunnel-clear-entry>
  </service-l2tp-tunnel-clear-information>
</rpc-reply>
```

Description L2TP cleared tunnel information.

Contents <l2tp-tunnel-clear-entry>—L2TP cleared tunnel information.

<service-l2tp-tunnel-information>

Usage
```
<rpc-reply>
  <service-l2tp-tunnel-information>
    <l2tp-per-tunnel-group-tunnel-table>...</l2tp-per-tunnel-group-tunnel-table>
  </service-l2tp-tunnel-information>
</rpc-reply>
```

Description L2TP tunnel information.

Contents <l2tp-per-tunnel-group-tunnel-table>—Tunnel table sorted by tunnel group.

<service-l2tp-user-information>

Usage
```
<rpc-reply>
  <service-l2tp-user-information>
    <l2tp-per-tunnel-user-table>l2tp-per-tunnel-user-table
                </l2tp-per-tunnel-user-table>
  </service-l2tp-user-information>
</rpc-reply>
```

Description L2TP user information.

Contents <l2tp-per-tunnel-user-table>—No documentation is available yet.

<service-msp-flow-drain>

Usage
```
<service-msp-flow-drain-information>
  <service-msp-flow-drain>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <flows-removed>flows-removed</flows-removed>
  </service-msp-flow-drain>
</service-msp-flow-drain-information>
```

Description Flow removed.

Contents <flows-removed>—Number of flows removed in the service set.

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-msp-flow-drain-information>

Usage
```
<rpc-reply>
  <service-msp-flow-drain-information>
    <service-msp-flow-drain>...</service-msp-flow-drain>
  </service-msp-flow-drain-information>
</rpc-reply>
```

Description Remove established flows from the flow table.

Contents <service-msp-flow-drain>—Flow removed.

<service-nat-ipv6-multicast-interfaces>

Usage

```
<service-nat-ipv6-multicast-interfaces-information>
  <service-nat-ipv6-multicast-interfaces>
    <v6-multicast-interface-name>v6-multicast-interface-name
                </v6-multicast-interface-name>
    <v6-multicast-configured-status>v6-multicast-configured-status
                </v6-multicast-configured-status>
    <v6-multicast-operation-status>v6-multicast-operation-status
                </v6-multicast-operation-status>
    <v6-multicast-by-all>v6-multicast-by-all</v6-multicast-by-all>
  </service-nat-ipv6-multicast-interfaces>
</service-nat-ipv6-multicast-interfaces-information>
```

Description IPv6 multicast interfaces.

Contents <v6-multicast-by-all>—IPv6 multicast configured by all keyword.

<v6-multicast-configured-status>—IPv6 multicast configuration.

<v6-multicast-interface-name>—Name of interface for IPv6 multicast.

<v6-multicast-operation-status>—IPv6 multicast status.

<service-nat-ipv6-multicast-interfaces-information>

Usage

```
<rpc-reply>
  <service-nat-ipv6-multicast-interfaces-information>
    <service-nat-ipv6-multicast-interfaces>...
                </service-nat-ipv6-multicast-interfaces>
  </service-nat-ipv6-multicast-interfaces-information>
</rpc-reply>
```

Description IPv6 multicast interfaces information.

Contents <service-nat-ipv6-multicast-interfaces>—IPv6 multicast interfaces.

<service-nat-pool>

Usage

```
<sfw-per-service-set-nat-pool>
  <service-nat-pool>
    <pool-name>pool-name</pool-name>
    <translation-type>translation-type</translation-type>
    <pool-address-start>pool-address-start</pool-address-start>
    <pool-address-end>pool-address-end</pool-address-end>
    <pool-address-range>pool-address-range</pool-address-range>
    <pool-address-range-list>pool-address-range-list</pool-address-range-list>
    <pool-port-low>pool-port-low</pool-port-low>
    <pool-port-high>pool-port-high</pool-port-high>
    <pool-port-range>pool-port-range</pool-port-range>
    <pool-ports-in-use>pool-ports-in-use</pool-ports-in-use>
    <pool-out-of-port-errors>pool-out-of-port-errors</pool-out-of-port-errors>
    <pool-out-of-address-errors>pool-out-of-address-errors
                    </pool-out-of-address-errors>
    <pool-max-ports-in-use>pool-max-ports-in-use</pool-max-ports-in-use>
    <pool-addresses-in-use>pool-addresses-in-use</pool-addresses-in-use>
  </service-nat-pool>
</sfw-per-service-set-nat-pool>
```

Description NAT pool information.

Contents <pool-address-end>—End of address range.

<pool-address-range>—Range of port addresses.

<pool-address-range-list>—List of address ranges.

<pool-address-start>—Start of address range.

<pool-addresses-in-use>—Number of Addresses in use.

<pool-max-ports-in-use>—Maximum number of ports ever used in this pool so far.

<pool-name>—Name of the NAT pool.

<pool-out-of-address-errors>—Number of address allocation failures.

<pool-out-of-port-errors>—Number of port allocation failures.

<pool-port-high>—End of port range.

<pool-port-low>—Start of port range.

<pool-port-range>—Range of port numbers.

<pool-ports-in-use>—Number of ports in use.

<translation-type>—Type of Network Address Translation.

<service-nat-pool-information>

Usage
```
<rpc-reply>
  <service-nat-pool-information>
    <sfw-per-service-set-nat-pool>...</sfw-per-service-set-nat-pool>
  </service-nat-pool-information>
</rpc-reply>
```

Description Show information about NAT pools.

Contents <sfw-per-service-set-nat-pool>—NAT pool information for one service set.

<service-pgcp-conversation-information>

Usage
```
<rpc-reply>
  <service-pgcp-conversation-information>
    <pgcp-per-service-set-conversation>...</pgcp-per-service-set-conversation>
  </service-pgcp-conversation-information>
</rpc-reply>
```

Description Show conversations.

Contents <pgcp-per-service-set-conversation>—Show conversations.

<service-pgcp-debug-applicationq-latency>

Usage
```
<rpc-reply>
  <service-pgcp-debug-applicationq-latency>
    <debug-applicationq-latency-information>debug-applicationq-latency-information
            </debug-applicationq-latency-information>
  </service-pgcp-debug-applicationq-latency>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-applicationq-latency-information>—Application queue latency information.

<service-pgcp-debug-applicationq-size>

Usage
```
<rpc-reply>
  <service-pgcp-debug-applicationq-size>
    <debug-applicationq-size-information>debug-applicationq-size-information
            </debug-applicationq-size-information>
  </service-pgcp-debug-applicationq-size>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-applicationq-size-information>—Application queue size information.

<service-pgcp-debug-commit-latency>

Usage

```
<rpc-reply>
  <service-pgcp-debug-commit-latency>
    <debug-commit-latency-information>debug-commit-latency-information
                </debug-commit-latency-information>
  </service-pgcp-debug-commit-latency>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-commit-latency-information>—Datastore commit latency information.

<service-pgcp-debug-mem-mgmt-location>

Usage

```
<rpc-reply>
  <service-pgcp-debug-mem-mgmt-location>
    <debug-mem-mgmt-location-information>debug-mem-mgmt-location-information
                </debug-mem-mgmt-location-information>
  </service-pgcp-debug-mem-mgmt-location>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-mem-mgmt-location-information>—A list of all memory allocations sorted by type and function.

<service-pgcp-debug-mem-mgmt-memory-usage>

Usage

```
<rpc-reply>
  <service-pgcp-debug-mem-mgmt-memory-usage>

<debug-mem-mgmt-memory-usage-information>debug-mem-mgmt-memory-usage-inform
ation
                </debug-mem-mgmt-memory-usage-information>
  </service-pgcp-debug-mem-mgmt-memory-usage>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-mem-mgmt-memory-usage-information>—A brief information of the memory usage.

<service-pgcp-debug-mem-mgmt-type>

Usage
```
<rpc-reply>
  <service-pgcp-debug-mem-mgmt-type>
    <debug-mem-mgmt-type-information>debug-mem-mgmt-type-information
                </debug-mem-mgmt-type-information>
  </service-pgcp-debug-mem-mgmt-type>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-mem-mgmt-type-information>—A list of all memory allocations sorted by type.

<service-pgcp-debug-resumeq-latency>

Usage
```
<rpc-reply>
  <service-pgcp-debug-resumeq-latency>
    <debug-resumeq-latency-information>debug-resumeq-latency-information
                </debug-resumeq-latency-information>
  </service-pgcp-debug-resumeq-latency>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-resumeq-latency-information>—Resume queue latency information.

<service-pgcp-debug-resumeq-size>

Usage
```
<rpc-reply>
  <service-pgcp-debug-resumeq-size>
    <debug-resumeq-size-information>debug-resumeq-size-information
                </debug-resumeq-size-information>
  </service-pgcp-debug-resumeq-size>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-resumeq-size-information>—Resume queue size information.

<service-pgcp-debug-roundtrip>

Usage
```
<rpc-reply>
  <service-pgcp-debug-roundtrip>
    <debug-roundtrip-information>debug-roundtrip-information
                </debug-roundtrip-information>
  </service-pgcp-debug-roundtrip>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-roundtrip-information>—Gate requests roundtrip delay (daemon <--> pic).

<service-pgcp-debug-waitq-latency>

Usage

```
<rpc-reply>
  <service-pgcp-debug-waitq-latency>
    <debug-waitq-latency-information>debug-waitq-latency-information
                </debug-waitq-latency-information>
  </service-pgcp-debug-waitq-latency>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-waitq-latency-information>—Wait queue latency information.

<service-pgcp-debug-waitq-size>

Usage

```
<rpc-reply>
  <service-pgcp-debug-waitq-size>
    <debug-waitq-size-information>debug-waitq-size-information
                </debug-waitq-size-information>
  </service-pgcp-debug-waitq-size>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-waitq-size-information>—Wait queue size information.

<service-pgcp-debug-workq-latency>

Usage

```
<rpc-reply>
  <service-pgcp-debug-workq-latency>
    <debug-workq-latency-information>debug-workq-latency-information
                </debug-workq-latency-information>
  </service-pgcp-debug-workq-latency>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-workq-latency-information>—Work queue latency information.

<service-pgcp-debug-workq-size>

Usage

```
<rpc-reply>
  <service-pgcp-debug-workq-size>
    <debug-workq-size-information>debug-workq-size-information
                </debug-workq-size-information>
  </service-pgcp-debug-workq-size>
</rpc-reply>
```

Description No documentation is available yet.

Contents <debug-workq-size-information>—Work queue size information.

<service-pgcp-flow-count>

Usage
```
<service-pgcp-flow-count-information>
  <service-pgcp-flow-count>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <flow-count>flow-count</flow-count>
  </service-pgcp-flow-count>
</service-pgcp-flow-count-information>
```

Description Stateful firewall flow count.

Contents <flow-count>—Number of flows in the service set.

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-pgcp-flow-count-information>

Usage
```
<rpc-reply>
  <service-pgcp-flow-count-information>
    <service-pgcp-flow-count>...</service-pgcp-flow-count>
  </service-pgcp-flow-count-information>
</rpc-reply>
```

Description Count of matching flow entries.

Contents <service-pgcp-flow-count>—Stateful firewall flow count.

<service-pgcp-flow-table>

Usage
```
<pgcp-per-service-set-flow-table | pgcp-conversation>
  <service-pgcp-flow-table>
    <pgcp-flow-entry>...</pgcp-flow-entry>
  </service-pgcp-flow-table>
</pgcp-per-service-set-flow-table | pgcp-conversation>
```

Description Stateful firewall flows.

Contents <pgcp-flow-entry>—Flow brief information.

<service-pgcp-flow-table-information>

Usage
```
<rpc-reply>
  <service-pgcp-flow-table-information>
    <pgcp-per-service-set-flow-table>...</pgcp-per-service-set-flow-table>
  </service-pgcp-flow-table-information>
</rpc-reply>
```

Description Conversations sorted by service set.

Contents <pgcp-per-service-set-flow-table>—Flows sorted by service set.

<service-pgcp-gate-entry-information>

Usage

```
<service-pgcp-gates>
  <service-pgcp-gate-entry-information>
    <gate-id>gate-id</gate-id>
    <gate-state>gate-state</gate-state>
    <gate-direction>gate-direction</gate-direction>
    <gate-action>gate-action</gate-action>
    <source-routing-instance>source-routing-instance</source-routing-instance>
    <destination-routing-instance>destination-routing-instance
        </destination-routing-instance>
    <gate-service-set-id>gate-service-set-id</gate-service-set-id>
    <media-card-name>media-card-name</media-card-name>
    <media-handler-name>media-handler-name</media-handler-name>
    <termination-id-string>termination-id-string</termination-id-string>
    <gate-remote-source-address>gate-remote-source-address
        </gate-remote-source-address>
    <gate-remote-source-port>gate-remote-source-port</gate-remote-source-port>
    <gate-remote-destination-address>gate-remote-destination-address
        </gate-remote-destination-address>
    <gate-remote-destination-port>gate-remote-destination-port
        </gate-remote-destination-port>
    <gate-local-source-address>gate-local-source-address
        </gate-local-source-address>
    <gate-local-source-port>gate-local-source-port</gate-local-source-port>
    <gate-local-destination-address>gate-local-destination-address
        </gate-local-destination-address>
    <gate-local-destination-port>gate-local-destination-port
        </gate-local-destination-port>
    <gate-transport>gate-transport</gate-transport>
    <gate-rtcp-shadow>gate-rtcp-shadow</gate-rtcp-shadow>
    <gate-latch>gate-latch</gate-latch>
    <gate-dscp>gate-dscp</gate-dscp>
    <gate-tman-policing>gate-tman-policing</gate-tman-policing>
    <gate-sdr>gate-sdr</gate-sdr>
    <gate-pdr>gate-pdr</gate-pdr>
    <gate-mbs>gate-mbs</gate-mbs>
    <rtcp-sdr>rtcp-sdr</rtcp-sdr>
    <rtcp-pdr>rtcp-pdr</rtcp-pdr>
    <rtcp-mbs>rtcp-mbs</rtcp-mbs>
    <gate-fuf-policing>gate-fuf-policing</gate-fuf-policing>
    <gate-green-action>gate-green-action</gate-green-action>
    <gate-yellow-action>gate-yellow-action</gate-yellow-action>
    <gate-red-action>gate-red-action</gate-red-action>
    <gate-output-packets>gate-output-packets</gate-output-packets>
    <gate-input-packets>gate-input-packets</gate-input-packets>
    <gate-dropped-packets>gate-dropped-packets</gate-dropped-packets>
    <gate-lost-rtp-packets>gate-lost-rtp-packets</gate-lost-rtp-packets>
    <gate-fractional-lost-rtp-packets>gate-fractional-lost-rtp-packets
        </gate-fractional-lost-rtp-packets>
    <gate-rtcp-information>...</gate-rtcp-information>
    <gate-measured-rate>gate-measured-rate</gate-measured-rate>
    <service-rate-limit-information>...</service-rate-limit-information>
    <gate-fuf-statistics-information>...</gate-fuf-statistics-information>
```

```
    <gate-mirroring-state>gate-mirroring-state</gate-mirroring-state>
    <gate-mirroring-correlation-number>gate-mirroring-correlation-number
                </gate-mirroring-correlation-number>
    <gate-mirroring-target-id>gate-mirroring-target-id</gate-mirroring-target-id>
    <gate-mirroring-direction>gate-mirroring-direction</gate-mirroring-direction>
  </service-pgcp-gate-entry-information>
</service-pgcp-gates>
```

Description No documentation is available yet.

Contents <destination-routing-instance>—Destination routing-instance.

<gate-action>—Gate action (forward/drop).

<gate-direction>—Gate direction (A->B/B->A).

<gate-dropped-packets>—Packet-dropped by gate statistics.

<gate-dscp>—DSCP for outgoing packets on this gate.

<gate-fractional-lost-rtp-packets>—Calculated fractional lost RTP packets.

<gate-fuf-policing>—Install/uninstall a fuf policer for this gate.

<gate-fuf-statistics-information>—FUF statistics.

<gate-green-action>—Action to be application over green packets.

<gate-id>—Gate id.

<gate-input-packets>—Packet-received by gate statistics.

<gate-latch>—Install/uninstall a latch for this gate.

<gate-local-destination-address>—Gate local destination address.

<gate-local-destination-port>—Gate local destination port.

<gate-local-source-address>—Gate local source address.

<gate-local-source-port>—Gate local source port.

<gate-lost-rtp-packets>—Number of lost RTP packets lost.

<gate-mbs>—Maximum pdr burst size limit for a gate.

<gate-measured-rate>—Measured rate of traffic for gate in bytes/second.

<gate-mirroring-correlation-number>—Session mirroring correlation number.

<gate-mirroring-direction>—Whether session mirroring is done before or after NAT.

<gate-mirroring-state>—Whether session mirroring is active for this gate.

<gate-mirroring-target-id>—List of session mirroring destinations.

<gate-output-packets>—Packet-sent by gate statistics.

<gate-pdr>—Peak data rate threshold for a gate.

<gate-red-action>—Action to be application over red packets.

<gate-remote-destination-address>—Gate remote destination address.

<gate-remote-destination-port>—Gate remote destination port.

<gate-remote-source-address>—Gate remote source address.

<gate-remote-source-port>—Gate remote source port.

<gate-rtcp-information>—No documentation is available yet.

<gate-rtcp-shadow>—Is there a shadowed RTCP gate associated.

<gate-sdr>—Sustainable data rate threshold for a gate.

<gate-service-set-id>—Service set id.

<gate-state>—Gate state (active/disabled).

<gate-tman-policing>—Install/uninstall a traffic management policing for this gate.

<gate-transport>—Gate transport protocols.

<gate-yellow-action>—Action to be application over yellow packets.

<media-card-name>—Media card name.

<media-handler-name>—Media handler name.

<rtcp-mbs>—Maximum burst size limit of the RTCP stream.

<rtcp-pdr>—Peak data rate threshold of the RTCP stream.

<rtcp-sdr>—SDR Sustainable data rate threshold of the RTCP stream.

<service-rate-limit-information>—Rate limiting statistics.

<source-routing-instance>—Source routing-instance.

<termination-id-string>—Termination id as string.

<*service-pgcp-gates*>

Usage

```
<rpc-reply>
  <service-pgcp-gates>
    <gateway-entry>...</gateway-entry>
    <service-pgcp-gate-entry-information>...</service-pgcp-gate-entry-information>
    <service-pgcp-gates-count>...</service-pgcp-gates-count>
  </service-pgcp-gates>
</rpc-reply>
```

Description No documentation is available yet.

Contents <gateway-entry>—No documentation is available yet.

<service-pgcp-gate-entry-information>—No documentation is available yet.

<service-pgcp-gates-count>—Count of gate entries per gateway.

<*service-pgcp-gates-count*>

Usage

```
<service-pgcp-gates>
  <service-pgcp-gates-count>
    <gate-count>gate-count</gate-count>
    <gateway-name>gateway-name</gateway-name>
  </service-pgcp-gates-count>
</service-pgcp-gates>
```

Description Count of gate entries per gateway.

Contents <gate-count>—Number of gates in the gateway.

<gateway-name>—No documentation is available yet.

<*service-pgcp-gates-drain-information*>

Usage

```
<rpc-reply>
  <service-pgcp-gates-drain-information>
    <gateway-collections-number>gateway-collections-number
                </gateway-collections-number>
  </service-pgcp-gates-drain-information>
</rpc-reply>
```

Description Gates information cleared by pgcpd.

Contents <gateway-collections-number>—No documentation is available yet.

<service-pgcp-stat-h248-per-command>

Usage

```
<service-pgcp-statistics-gateway>
  <service-pgcp-stat-h248-per-command>
    <command-name>command-name</command-name>
    <commands-total>commands-total</commands-total>
    <commands-wildcard>commands-wildcard</commands-wildcard>
    <commands-success>commands-success</commands-success>
    <commands-error>commands-error</commands-error>
  </service-pgcp-stat-h248-per-command>
</service-pgcp-statistics-gateway>
```

Description No documentation is available yet.

Contents <command-name>—H.248 command requests.

<commands-error>—Number of H.248 failed replies.

<commands-success>—Number of H.248 successful replies.

<commands-total>—Total number of h.248 command requests.

<commands-wildcard>—The number of command request that had wildcard termination ID or termination list.

<service-pgcp-stat-h248-per-command-header>

Usage

```
<service-pgcp-statistics-gateway>
  <service-pgcp-stat-h248-per-command-header>

<per-command-header-name>per-command-header-name</per-command-header-name
>
  </service-pgcp-stat-h248-per-command-header>
</service-pgcp-statistics-gateway>
```

Description No documentation is available yet.

Contents <per-command-header-name>—Statistics header.

<service-pgcp-statistics-gateway>

Usage

```
<rpc-reply>
  <service-pgcp-statistics-gateway>
    <gateway-entry>...</gateway-entry>
    <usage-counters-entry>...</usage-counters-entry>
    <service-pgcp-statistics-h248>...</service-pgcp-statistics-h248>
    <service-pgcp-stat-h248-per-command-header>...
                    </service-pgcp-stat-h248-per-command-header>
    <service-pgcp-stat-h248-per-command>...</service-pgcp-stat-h248-per-command>
  </service-pgcp-statistics-gateway>
</rpc-reply>
```

Description No documentation is available yet.

Contents <gateway-entry>—No documentation is available yet.

<service-pgcp-stat-h248-per-command>—No documentation is available yet.

<service-pgcp-stat-h248-per-command-header>—No documentation is available yet.

<service-pgcp-statistics-h248>—No documentation is available yet.

<usage-counters-entry>—No documentation is available yet.

<service-pgcp-statistics-h248>

Usage

```
<service-pgcp-statistics-gateway>
  <service-pgcp-statistics-h248>
    <messages-received>messages-received</messages-received>
    <octets-received>octets-received</octets-received>
    <messages-sent>messages-sent</messages-sent>
    <octets-sent>octets-sent</octets-sent>
    <protocol-errors>protocol-errors</protocol-errors>
    <transport-losses>transport-losses</transport-losses>
    <last-detected-event>last-detected-event</last-detected-event>
    <last-detected-event-time>last-detected-event-time</last-detected-event-time>
    <last-reset-time>last-reset-time</last-reset-time>
  </service-pgcp-statistics-h248>
</service-pgcp-statistics-gateway>
```

Description No documentation is available yet.

Contents

<last-detected-event>—Last detected H.248 event.

<last-detected-event-time>—Last detected H.248 event time.

<last-reset-time>—Last H.248 reset time.

<messages-received>—Number of H.248 messages received.

<messages-sent>—Number of H.248 messages sent.

<octets-received>—Number of H.248 octets received.

<octets-sent>—Number of H.248 octest sent.

<protocol-errors>—Number of H.248 protocol erros.

<transport-losses>—Number of H.248 transport losses.

<service-pgcp-termination-entry-information>

Usage

```
<service-pgcp-terminations>
  <service-pgcp-termination-entry-information>
    <termination-id-string>termination-id-string</termination-id-string>
    <termination-state>termination-state</termination-state>
    <termination-duration>termination-duration</termination-duration>
    <termination-h248-dump>termination-h248-dump</termination-h248-dump>
  </service-pgcp-termination-entry-information>
</service-pgcp-terminations>
```

Description No documentation is available yet.

Contents <termination-duration>—Termination duration (in milliseconds).

<termination-h248-dump>—Termination information.

<termination-id-string>—Termination id as string.

<termination-state>—Termination state (in/out of service).

<service-pgcp-termination-gates-information>

Usage

```
<service-pgcp-terminations>
  <service-pgcp-termination-gates-information>
    <gate-id>gate-id</gate-id>
    <gate-direction>gate-direction</gate-direction>
    <gate-state>gate-state</gate-state>
    <gate-action>gate-action</gate-action>
  </service-pgcp-termination-gates-information>
</service-pgcp-terminations>
```

Description No documentation is available yet.

Contents <gate-action>—Gate action (forward/drop).

<gate-direction>—Gate direction (A- > B/B- > A).

<gate-id>—Gate id.

<gate-state>—Gate state (active/disabled).

<service-pgcp-terminations>

Usage
```
<rpc-reply>
  <service-pgcp-terminations>
    <gateway-entry>...</gateway-entry>
    <service-pgcp-termination-entry-information>...
                </service-pgcp-termination-entry-information>
    <service-pgcp-termination-gates-information>...
                </service-pgcp-termination-gates-information>
    <service-pgcp-terminations-count>...</service-pgcp-terminations-count>
  </service-pgcp-terminations>
</rpc-reply>
```

Description No documentation is available yet.

Contents <gateway-entry>—No documentation is available yet.

<service-pgcp-termination-entry-information>—No documentation is available yet.

<service-pgcp-termination-gates-information>—No documentation is available yet.

<service-pgcp-terminations-count>—Count of termination entries per gateway.

<service-pgcp-terminations-count>

Usage
```
<service-pgcp-terminations>
  <service-pgcp-terminations-count>
    <termination-count>termination-count</termination-count>
    <gateway-name>gateway-name</gateway-name>
  </service-pgcp-terminations-count>
</service-pgcp-terminations>
```

Description Count of termination entries per gateway.

Contents <gateway-name>—No documentation is available yet.

<termination-count>—Number of terminations in the gateway.

<service-pic-entry>

Usage
```
<pgcpd-active-configuration | pgcpd-config>
  <service-pic-entry>
    <pic-name>pic-name</pic-name>
    <pic-status>pic-status</pic-status>
  </service-pic-entry>
</pgcpd-active-configuration | pgcpd-config>
```

Description No documentation is available yet.

Contents <pic-name>—No documentation is available yet.

<pic-status>—No documentation is available yet.

<service-rate-limit-entry>

Usage

```
<service-rate-limit-information>
  <service-rate-limit-entry>
    <service-rate-limit-mark-color>service-rate-limit-mark-color
                </service-rate-limit-mark-color>
    <service-rate-limit-packet-count>service-rate-limit-packet-count
                </service-rate-limit-packet-count>
    <service-rate-limit-byte-count>service-rate-limit-byte-count
                </service-rate-limit-byte-count>
  </service-rate-limit-entry>
</service-rate-limit-information>
```

Description No documentation is available yet.

Contents <service-rate-limit-byte-count>—Number of bytes marked.

<service-rate-limit-mark-color>—Mark color.

<service-rate-limit-packet-count>—Number of packets marked.

<service-rate-limit-information>

Usage

```
<service-pgcp-gate-entry-information>
  <service-rate-limit-information>
    <service-rate-limit-entry>...</service-rate-limit-entry>
  </service-rate-limit-information>
</service-pgcp-gate-entry-information>
```

Description Rate limiting statistics.

Contents <service-rate-limit-entry>—No documentation is available yet.

<service-set-cpu-statistics>

Usage

```
<service-set-cpu-statistics-information>
  <service-set-cpu-statistics>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <cpu-utilization-percent>cpu-utilization-percent</cpu-utilization-percent>
  </service-set-cpu-statistics>
</service-set-cpu-statistics-information>
```

Description CPU usage statistics.

Contents <cpu-utilization-percent>—CPU utilization (percent).

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-set-cpu-statistics-information>

Usage

```
<rpc-reply>
  <service-set-cpu-statistics-information>
    <service-set-cpu-statistics>...</service-set-cpu-statistics>
  </service-set-cpu-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <service-set-cpu-statistics>—CPU usage statistics.

<service-set-entry>

Usage

```
<pgcpd-active-configuration | pgcpd-config>
  <service-set-entry>
    <service-set-name>service-set-name</service-set-name>
    <id>id</id>
    <rule-ref-entry>...</rule-ref-entry>
  </service-set-entry>
</pgcpd-active-configuration | pgcpd-config>
```

Description No documentation is available yet.

Contents <id>—No documentation is available yet.

<rule-ref-entry>—No documentation is available yet.

<service-set-name>—Name of the service set.

<service-set-memory-statistics>

Usage

```
<service-set-memory-statistics-information>
  <service-set-memory-statistics>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <bytes-used>bytes-used</bytes-used>
  </service-set-memory-statistics>
</service-set-memory-statistics-information>
```

Description Memory usage statistics.

Contents <bytes-used>—Memory used (bytes).

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-set-memory-statistics-information>

Usage

```
<rpc-reply>
  <service-set-memory-statistics-information>
    <service-set-memory-statistics>...</service-set-memory-statistics>
  </service-set-memory-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <service-set-memory-statistics>—Memory usage statistics.

<service-set-packet-drop-statistics>

Usage

```
<rpc-reply>
  <service-set-packet-drop-statistics>
    <service-set-packet-drops>...</service-set-packet-drops>
  </service-set-packet-drop-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <service-set-packet-drops>—Packet-drop statistics.

<service-set-packet-drops>

Usage

```
<service-set-packet-drop-statistics>
  <service-set-packet-drops>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <cpulimit-drops>cpulimit-drops</cpulimit-drops>
    <memlimit-drops>memlimit-drops</memlimit-drops>
    <flowlimit-drops>flowlimit-drops</flowlimit-drops>
  </service-set-packet-drops>
</service-set-packet-drop-statistics>
```

Description Packet-drop statistics.

Contents <cpulimit-drops>—Drops because CPU usage limit is reached.

<flowlimit-drops>—Drops because Flow limit is reached.

<interface-name>—Name of the adaptive services interface.

<memlimit-drops>—Drops because Memory usage limit is reached.

<service-set-name>—Name of the service set.

<service-set-plugin-information>

Usage

```
<service-set-plugin-summary>
  <service-set-plugin-information>
    <service-set-name>service-set-name</service-set-name>
    <service-set-state>service-set-state</service-set-state>
    <plugins-configured>plugins-configured</plugins-configured>
    <plugin-name>plugin-name</plugin-name>
    <plugin-id>plugin-id</plugin-id>
  </service-set-plugin-information>
</service-set-plugin-summary>
```

Description Service set plugin information.

Contents <plugin-id>—Plugin ID.

<plugin-name>—Name of the plugin.

<plugins-configured>—Plugins configured.

<service-set-name>—Name of the service set.

<service-set-state>—Service set state.

<service-set-plugin-summary>

Usage

```
<rpc-reply>
  <service-set-plugin-summary>
    <interface-name>interface-name</interface-name>
    <service-set-plugin-information>...</service-set-plugin-information>
  </service-set-plugin-summary>
</rpc-reply>
```

Description Service set plugin summary.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-plugin-information>—Service set plugin information.

<service-set-service-type-entry>

Usage

```
<service-set-summary-information-entry>
  <service-set-service-type-entry>
    <service-type>service-type</service-type>
    <service-sets-configured>service-sets-configured</service-sets-configured>
    <service-set-bytes-used>service-set-bytes-used</service-set-bytes-used>
    <service-set-percent-bytes-used>service-set-percent-bytes-used
                </service-set-percent-bytes-used>
    <service-set-cpu-utilization>service-set-cpu-utilization
                </service-set-cpu-utilization>
    <service-set-policy-bytes-used>service-set-policy-bytes-used
                </service-set-policy-bytes-used>
    <service-set-percent-policy-bytes-used>service-set-percent-policy-bytes-used
                </service-set-percent-policy-bytes-used>
  </service-set-service-type-entry>
</service-set-summary-information-entry>
```

Description Service set service type entry.

Contents <service-set-bytes-used>—Memory used (bytes).

<service-set-cpu-utilization>—CPU utilization (percent).

<service-set-percent-bytes-used>—Memory used (percent).

<service-set-percent-policy-bytes-used>—Policy memory used (percent).

<service-set-policy-bytes-used>—Policy memory used (bytes).

<service-sets-configured>—Number of service sets configured.

<service-type>—Service type.

<service-set-summary-information>

Usage

```
<rpc-reply>
  <service-set-summary-information>
    <service-set-summary-information-entry>...
                </service-set-summary-information-entry>
  </service-set-summary-information>
</rpc-reply>
```

Description Service set summary information.

Contents <service-set-summary-information-entry>—Service set summary information entry.

<service-set-summary-information-entry>

Usage
```
<service-set-summary-information>
  <service-set-summary-information-entry>
    <interface-name>interface-name</interface-name>
    <service-set-service-type-entry>...</service-set-service-type-entry>
  </service-set-summary-information-entry>
</service-set-summary-information>
```

Description Service set summary information entry.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-service-type-entry>—Service set service type entry.

<service-set-tcp-mss>

Usage
```
<service-set-tcp-mss-statistics>
  <service-set-tcp-mss>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <syn-received>syn-received</syn-received>
    <syn-modified>syn-modified</syn-modified>
  </service-set-tcp-mss>
</service-set-tcp-mss-statistics>
```

Description TCP MSS statistics.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<syn-modified>—Number of SYN packets whose MSS setting was modified.

<syn-received>—Number of SYN packets received for the service set.

<service-set-tcp-mss-statistics>

Usage
```
<rpc-reply>
  <service-set-tcp-mss-statistics>
    <service-set-tcp-mss>...</service-set-tcp-mss>
  </service-set-tcp-mss-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <service-set-tcp-mss>—TCP MSS statistics.

<service-sfw-conversation-information>

Usage

```
<rpc-reply>
  <service-sfw-conversation-information>
    <sfw-per-service-set-conversation>...</sfw-per-service-set-conversation>
  </service-sfw-conversation-information>
</rpc-reply>
```

Description Show conversations.

Contents <sfw-per-service-set-conversation>—Show conversations.

<service-sfw-flow-count>

Usage

```
<service-sfw-flow-count-information>
  <service-sfw-flow-count>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <flow-count>flow-count</flow-count>
  </service-sfw-flow-count>
</service-sfw-flow-count-information>
```

Description Stateful firewall flow count.

Contents <flow-count>—Number of flows in the service set.

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-sfw-flow-count-information>

Usage

```
<rpc-reply>
  <service-sfw-flow-count-information>
    <service-sfw-flow-count>...</service-sfw-flow-count>
  </service-sfw-flow-count-information>
</rpc-reply>
```

Description Count of matching flow entries.

Contents <service-sfw-flow-count>—Stateful firewall flow count.

<service-sfw-flow-drain>

Usage
```
<service-sfw-flow-drain-information>
  <service-sfw-flow-drain>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <conversations-removed>conversations-removed</conversations-removed>
  </service-sfw-flow-drain>
</service-sfw-flow-drain-information>
```

Description Stateful firewall flow removed.

Contents <conversations-removed>—Number of conversations removed in the service set.

<interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-sfw-flow-drain-information>

Usage
```
<rpc-reply>
  <service-sfw-flow-drain-information>
    <service-sfw-flow-drain>...</service-sfw-flow-drain>
  </service-sfw-flow-drain-information>
</rpc-reply>
```

Description Remove established flows from the flow table.

Contents <service-sfw-flow-drain>—Stateful firewall flow removed.

<service-sfw-flow-table>

Usage
```
<sfw-per-service-set-flow-table | sfw-conversation>
  <service-sfw-flow-table>
    <sfw-flow-entry>...</sfw-flow-entry>
  </service-sfw-flow-table>
</sfw-per-service-set-flow-table | sfw-conversation>
```

Description Stateful firewall flows.

Contents <sfw-flow-entry>—Flow brief information.

<service-sfw-flow-table-information>

Usage
```
<rpc-reply>
  <service-sfw-flow-table-information>
    <sfw-per-service-set-flow-table>...</sfw-per-service-set-flow-table>
  </service-sfw-flow-table-information>
</rpc-reply>
```

Description Conversations sorted by service set.

Contents <sfw-per-service-set-flow-table>—Flows sorted by service set.

<service-sfw-sip-call-count>

Usage
```
<service-sfw-sip-call-count-information>
  <service-sfw-sip-call-count>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <sip-call-count>sip-call-count</sip-call-count>
  </service-sfw-sip-call-count>
</service-sfw-sip-call-count-information>
```

Description SIP call count.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sip-call-count>—Number of SIP calls in the service set.

<service-sfw-sip-call-count-information>

Usage
```
<rpc-reply>
  <service-sfw-sip-call-count-information>
    <service-sfw-sip-call-count>...</service-sfw-sip-call-count>
  </service-sfw-sip-call-count-information>
</rpc-reply>
```

Description Display a count of the matching SIP calls.

Contents <service-sfw-sip-call-count>—SIP call count.

<service-sfw-sip-call-drain>

Usage
```
<service-sfw-sip-call-drain-information>
  <service-sfw-sip-call-drain>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <sip-calls-removed>sip-calls-removed</sip-calls-removed>
  </service-sfw-sip-call-drain>
</service-sfw-sip-call-drain-information>
```

Description SIP calls removed.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sip-calls-removed>—SIP calls removed from the service set.

<service-sfw-sip-call-drain-information>

Usage
```
<rpc-reply>
  <service-sfw-sip-call-drain-information>
    <service-sfw-sip-call-drain>...</service-sfw-sip-call-drain>
  </service-sfw-sip-call-drain-information>
</rpc-reply>
```

Description Remove established SIP calls from the flow table.

Contents <service-sfw-sip-call-drain>—SIP calls removed.

<service-sfw-sip-call-information>

Usage
```
<rpc-reply>
  <service-sfw-sip-call-information>
    <sfw-per-service-set-sip-calls>...</sfw-per-service-set-sip-calls>
  </service-sfw-sip-call-information>
</rpc-reply>
```

Description SIP call information.

Contents <sfw-per-service-set-sip-calls>—Stateful firewall SIP calls sorted by service set.

<service-sfw-sip-registration-count>

Usage
```
<service-sfw-sip-registration-count-information>
  <service-sfw-sip-registration-count>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <sip-registration-count>sip-registration-count</sip-registration-count>
  </service-sfw-sip-registration-count>
</service-sfw-sip-registration-count-information>
```

Description SIP registration count.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sip-registration-count>—Number of SIP registration in the service set.

<service-sfw-sip-registration-count-information>

Usage
```
<rpc-reply>
  <service-sfw-sip-registration-count-information>
    <service-sfw-sip-registration-count>...</service-sfw-sip-registration-count>
  </service-sfw-sip-registration-count-information>
</rpc-reply>
```

Description Display a count of the matching SIP registrations.

Contents <service-sfw-sip-registration-count>—SIP registration count.

<service-sfw-sip-registration-drain>

Usage
```
<service-sfw-sip-registration-drain-information>
  <service-sfw-sip-registration-drain>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <sip-registration-removed>sip-registration-removed</sip-registration-removed>
  </service-sfw-sip-registration-drain>
</service-sfw-sip-registration-drain-information>
```

Description SIP registration removed.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sip-registration-removed>—SIP registration removed from the service set.

<service-sfw-sip-registration-drain-information>

Usage
```
<rpc-reply>
  <service-sfw-sip-registration-drain-information>
    <service-sfw-sip-registration-drain>...</service-sfw-sip-registration-drain>
  </service-sfw-sip-registration-drain-information>
</rpc-reply>
```

Description Remove established SIP registrations from the flow table.

Contents <service-sfw-sip-registration-drain>—SIP registration removed.

<service-sfw-sip-registration-information>

Usage
```
<rpc-reply>
  <service-sfw-sip-registration-information>
    <sfw-per-service-set-sip-registrations>...
                    </sfw-per-service-set-sip-registrations>
  </service-sfw-sip-registration-information>
</rpc-reply>
```

Description SIP registration information.

Contents <sfw-per-service-set-sip-registrations>—Stateful firewall SIP registrations sorted by service set.

<service-sfw-statistics-entry>

Usage
```
<service-sfw-statistics-information>
  <service-sfw-statistics-entry>
    <interface-name>interface-name</interface-name>
    <sfw-stats-service-set-entry>...</sfw-stats-service-set-entry>
  </service-sfw-statistics-entry>
</service-sfw-statistics-information>
```

Description Stateful firewall statistics entry.

Contents <interface-name>—Name of the adaptive services interface.

<sfw-stats-service-set-entry>—Stateful firewall service set statistics entry.

<service-sfw-statistics-information>

Usage
```
<rpc-reply>
  <service-sfw-statistics-information>
    <service-sfw-statistics-entry>...</service-sfw-statistics-entry>
  </service-sfw-statistics-information>
</rpc-reply>
```

Description Stateful firewall statistics information.

Contents <service-sfw-statistics-entry>—Stateful firewall statistics entry.

<services-l2tp-multilink-information>

Usage
```
<rpc-reply>
  <services-l2tp-multilink-information>
    <l2tp-multilink-entry>...</l2tp-multilink-entry>
  </services-l2tp-multilink-information>
</rpc-reply>
```

Description L2TP multilink information.

Contents <l2tp-multilink-entry>—L2TP multilink information.

<services-l2tp-radius-accounting-servers-information>

Usage
```
<rpc-reply>
  <services-l2tp-radius-accounting-servers-information>
    <radius-accounting-server-information-entry>...
                </radius-accounting-server-information-entry>
  </services-l2tp-radius-accounting-servers-information>
</rpc-reply>
```

Description RADIUS accounting servers information table.

Contents <radius-accounting-server-information-entry>—RADIUS accounting server information entry sorted by IP address.

<services-l2tp-radius-accounting-statistics-information>

Usage

```
<rpc-reply>
  <services-l2tp-radius-accounting-statistics-information>
    <radius-accounting-statistic-information-entry>...
                    </radius-accounting-statistic-information-entry>
  </services-l2tp-radius-accounting-statistics-information>
</rpc-reply>
```

Description RADIUS accounting statistics information table.

Contents <radius-accounting-statistic-information-entry>—RADIUS accounting statistic entry sorted by IP address.

<services-l2tp-radius-authentication-accounting-servers-information>

Usage

```
<rpc-reply>
  <services-l2tp-radius-authentication-accounting-servers-information>
    <radius-authentication-server-information-entry>...
                    </radius-authentication-server-information-entry>
    <radius-accounting-server-information-entry>...
                    </radius-accounting-server-information-entry>
  </services-l2tp-radius-authentication-accounting-servers-information>
</rpc-reply>
```

Description RADIUS authentication and accounting servers information.

Contents <radius-accounting-server-information-entry>—RADIUS accounting server information entry sorted by IP address.

<radius-authentication-server-information-entry>—RADIUS authentication server information entry sorted by IP address.

<services-l2tp-radius-authentication-accounting-statistics-information>

Usage

```
<rpc-reply>
  <services-l2tp-radius-authentication-accounting-statistics-information>
    <radius-authentication-statistic-information-entry>...
                    </radius-authentication-statistic-information-entry>
    <radius-accounting-statistic-information-entry>...
                    </radius-accounting-statistic-information-entry>
  </services-l2tp-radius-authentication-accounting-statistics-information>
</rpc-reply>
```

Description RADIUS authentication and accounting statistics information.

Contents <radius-accounting-statistic-information-entry>—RADIUS accounting statistic entry sorted by IP address.

<radius-authentication-statistic-information-entry>—RADIUS authentication statistic entry sorted by IP address.

<services-l2tp-radius-authentication-servers-information>

Usage
```
<rpc-reply>
  <services-l2tp-radius-authentication-servers-information>
    <radius-authentication-server-information-entry>...
                    </radius-authentication-server-information-entry>
  </services-l2tp-radius-authentication-servers-information>
</rpc-reply>
```

Description RADIUS authentication servers information.

Contents <radius-authentication-server-information-entry>—RADIUS authentication server information entry sorted by IP address.

<services-l2tp-radius-authentication-statistics-information>

Usage
```
<rpc-reply>
  <services-l2tp-radius-authentication-statistics-information>
    <radius-authentication-statistic-information-entry>...
                    </radius-authentication-statistic-information-entry>
  </services-l2tp-radius-authentication-statistics-information>
</rpc-reply>
```

Description RADIUS authentication statistics information.

Contents <radius-authentication-statistic-information-entry>—RADIUS authentication statistic entry sorted by IP address.

<services-l2tp-radius-servers-information-table-header>

Usage
```
<rpc-reply>
  <services-l2tp-radius-servers-information-table-header>
    <radius-server-information-table-header>radius-server-information-table-header
                    </radius-server-information-table-header>
    <radius-server-profile-name>radius-server-profile-name
                    </radius-server-profile-name>
  </services-l2tp-radius-servers-information-table-header>
</rpc-reply>
```

Description RADIUS authentication servers information.

Contents <radius-server-information-table-header>—Server information table header.

<radius-server-profile-name>—Server profile access name.

<services-pgcpd-root-termination>

Usage

```
<rpc-reply>
  <services-pgcpd-root-termination>
    <root-termination-information>root-termination-information
                </root-termination-information>
  </services-pgcpd-root-termination>
</rpc-reply>
```

Description No documentation is available yet.

Contents <root-termination-information>—H248 root termination information.

<sfw-conversation>

Usage

```
<sfw-per-service-set-conversation>
  <sfw-conversation>
    <sfw-flow-table-conv-alg>sfw-flow-table-conv-alg</sfw-flow-table-conv-alg>
    <sfw-flow-table-conv-initiator>sfw-flow-table-conv-initiator
                </sfw-flow-table-conv-initiator>
    <sfw-flow-table-conv-responder>sfw-flow-table-conv-responder
                </sfw-flow-table-conv-responder>
    <service-sfw-flow-table>...</service-sfw-flow-table>
  </sfw-conversation>
</sfw-per-service-set-conversation>
```

Description Stateful firewall conversations.

Contents <service-sfw-flow-table>—Stateful firewall flows.

<sfw-flow-table-conv-alg>—Application Protocol Gateway protocol.

<sfw-flow-table-conv-initiator>—Number of initiator flows.

<sfw-flow-table-conv-responder>—Number of responder flows.

<sfw-flow-entry>

Usage

```
<service-sfw-flow-table>
  <sfw-flow-entry>
    <sfw-flow-protocol>sfw-flow-protocol</sfw-flow-protocol>
    <sfw-flow-source-ip>sfw-flow-source-ip</sfw-flow-source-ip>
    <sfw-flow-source-port>sfw-flow-source-port</sfw-flow-source-port>
    <sfw-flow-destination-ip>sfw-flow-destination-ip</sfw-flow-destination-ip>
    <sfw-flow-destination-port>sfw-flow-destination-port
                </sfw-flow-destination-port>
    <sfw-flow-state>sfw-flow-state</sfw-flow-state>
    <sfw-flow-direction>sfw-flow-direction</sfw-flow-direction>
    <sfw-flow-frame-counter>sfw-flow-frame-counter</sfw-flow-frame-counter>
    <sfw-flow-gate-id>sfw-flow-gate-id</sfw-flow-gate-id>
    <sfw-flow-nat>...</sfw-flow-nat>
    <sfw-flow-table-byte-count>sfw-flow-table-byte-count
                </sfw-flow-table-byte-count>
    <sfw-flow-table-tcp-window-size>sfw-flow-table-tcp-window-size
                </sfw-flow-table-tcp-window-size>
    <sfw-flow-table-tcp-acknowledge>sfw-flow-table-tcp-acknowledge
                </sfw-flow-table-tcp-acknowledge>
    <sfw-flow-table-tcp-tickle>sfw-flow-table-tcp-tickle
                </sfw-flow-table-tcp-tickle>
    <sfw-flow-table-role>sfw-flow-table-role</sfw-flow-table-role>
    <sfw-flow-table-timeout>sfw-flow-table-timeout</sfw-flow-table-timeout>
    <sfw-flow-table-protocol-detail>sfw-flow-table-protocol-detail
                </sfw-flow-table-protocol-detail>
  </sfw-flow-entry>
</service-sfw-flow-table>
```

Description Flow brief information.

Contents <sfw-flow-destination-ip>—Flow destination IP address.

<sfw-flow-destination-port>—Flow destination port.

<sfw-flow-direction>—Flow direction.

<sfw-flow-frame-counter>—Number of frames transmitted.

<sfw-flow-gate-id>—PGCP gate-id.

<sfw-flow-nat>—NAT translation.

<sfw-flow-protocol>—Flow protocol description.

<sfw-flow-source-ip>—Source IP address.

<sfw-flow-source-port>—Source port address.

<sfw-flow-state>—Flow state.

<sfw-flow-table-byte-count>—Flow byte count.

<sfw-flow-table-protocol-detail>—Flow protocol detail information.

<sfw-flow-table-role>—Role of flow in conversation.

<sfw-flow-table-tcp-acknowledge>—TCP protocol acknowledge.

<sfw-flow-table-tcp-tickle>—Time between TCP tickles (seconds).

<sfw-flow-table-tcp-window-size>—TCP protocol window size.

<sfw-flow-table-timeout>—Timeout value of flow (seconds).

<sfw-flow-nat>

Usage

```
<sfw-flow-entry>
  <sfw-flow-nat>
    <sfw-flow-nat-ip>sfw-flow-nat-ip</sfw-flow-nat-ip>
    <sfw-flow-nat-port>sfw-flow-nat-port</sfw-flow-nat-port>
    <sfw-flow-translated-ip>sfw-flow-translated-ip</sfw-flow-translated-ip>
    <sfw-flow-translated-port>sfw-flow-translated-port</sfw-flow-translated-port>
  </sfw-flow-nat>
</sfw-flow-entry>
```

Description NAT translation.

Contents <sfw-flow-nat-ip>—Original IP address.

<sfw-flow-nat-port>—Original port.

<sfw-flow-translated-ip>—Translated IP address.

<sfw-flow-translated-port>—Translated port.

<sfw-per-service-set-conversation>

Usage

```
<service-sfw-conversation-information>
  <sfw-per-service-set-conversation>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <sfw-conversation>...</sfw-conversation>
  </sfw-per-service-set-conversation>
</service-sfw-conversation-information>
```

Description Show conversations.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sfw-conversation>—Stateful firewall conversations.

<sfw-per-service-set-flow-table>

Usage
```
<service-sfw-flow-table-information>
  <sfw-per-service-set-flow-table>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <service-sfw-flow-table>...</service-sfw-flow-table>
  </sfw-per-service-set-flow-table>
</service-sfw-flow-table-information>
```

Description Flows sorted by service set.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<service-sfw-flow-table>—Stateful firewall flows.

<sfw-per-service-set-nat-pool>

Usage
```
<service-nat-pool-information>
  <sfw-per-service-set-nat-pool>
    <service-set-name>service-set-name</service-set-name>
    <interface-name>interface-name</interface-name>
    <service-nat-pool>...</service-nat-pool>
  </sfw-per-service-set-nat-pool>
</service-nat-pool-information>
```

Description NAT pool information for one service set.

Contents <interface-name>—Name of the adaptive services interface.

<service-nat-pool>—NAT pool information.

<service-set-name>—Name of the service set.

<sfw-per-service-set-sip-calls>

Usage
```
<service-sfw-sip-call-information>
  <sfw-per-service-set-sip-calls>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <sfw-sip-calls>...</sfw-sip-calls>
  </sfw-per-service-set-sip-calls>
</service-sfw-sip-call-information>
```

Description Stateful firewall SIP calls sorted by service set.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sfw-sip-calls>—No documentation is available yet.

<sfw-per-service-set-sip-registrations>

Usage

```
<service-sfw-sip-registration-information>
  <sfw-per-service-set-sip-registrations>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <sfw-sip-registers>...</sfw-sip-registers>
  </sfw-per-service-set-sip-registrations>
</service-sfw-sip-registration-information>
```

Description Stateful firewall SIP registrations sorted by service set.

Contents <interface-name>—Name of the adaptive services interface.

<service-set-name>—Name of the service set.

<sfw-sip-registers>—No documentation is available yet.

<sfw-sip-call-entry>

Usage

```
<sfw-sip-calls>
  <sfw-sip-call-entry>
    <sfw-sip-from>sfw-sip-from</sfw-sip-from>
    <sfw-sip-to>sfw-sip-to</sfw-sip-to>
    <sfw-sip-callid>sfw-sip-callid</sfw-sip-callid>
    <sfw-sip-number-control-iflows>sfw-sip-number-control-iflows
                </sfw-sip-number-control-iflows>
    <sfw-sip-number-control-rflows>sfw-sip-number-control-rflows
                </sfw-sip-number-control-rflows>
    <sfw-sip-control-iflow-table>sfw-sip-control-iflow-table
                </sfw-sip-control-iflow-table>
    <sfw-sip-control-rflow-table>sfw-sip-control-rflow-table
                </sfw-sip-control-rflow-table>
    <sfw-sip-number-contact-iflows>sfw-sip-number-contact-iflows
                </sfw-sip-number-contact-iflows>
    <sfw-sip-number-contact-rflows>sfw-sip-number-contact-rflows
                </sfw-sip-number-contact-rflows>
    <sfw-sip-contact-iflow-table>sfw-sip-contact-iflow-table
                </sfw-sip-contact-iflow-table>
    <sfw-sip-contact-rflow-table>sfw-sip-contact-rflow-table
                </sfw-sip-contact-rflow-table>
    <sfw-sip-number-media-iflows>sfw-sip-number-media-iflows
                </sfw-sip-number-media-iflows>
    <sfw-sip-number-media-rflows>sfw-sip-number-media-rflows
                </sfw-sip-number-media-rflows>
    <sfw-sip-media-iflow-table>sfw-sip-media-iflow-table
                </sfw-sip-media-iflow-table>
    <sfw-sip-media-rflow-table>sfw-sip-media-rflow-table
                </sfw-sip-media-rflow-table>
  </sfw-sip-call-entry>
</sfw-sip-calls>
```

Description Session Initiation Protocol call.

Contents <sfw-sip-callid>—SIP call ID.

<sfw-sip-contact-iflow-table>—No documentation is available yet.

<sfw-sip-contact-rflow-table>—No documentation is available yet.

<sfw-sip-control-iflow-table>—No documentation is available yet.

<sfw-sip-control-rflow-table>—No documentation is available yet.

<sfw-sip-from>—SIP invite from.

<sfw-sip-media-iflow-table>—No documentation is available yet.

<sfw-sip-media-rflow-table>—No documentation is available yet.

<sfw-sip-number-contact-iflows>—Number of SIP contact initiator flows.

<sfw-sip-number-contact-rflows>—Number of SIP contact responder flows.

<sfw-sip-number-control-iflows>—Number of SIP Control initiator flows.

<sfw-sip-number-control-rflows>—Number of SIP control responder flows.

<sfw-sip-number-media-iflows>—Number of SIP media initiator flows.

<sfw-sip-number-media-rflows>—Number of SIP media responder flows.

<sfw-sip-to>—SIP invite to.

<sfw-sip-calls>

Usage

```
<sfw-per-service-set-sip-calls>
  <sfw-sip-calls>
    <sfw-sip-call-entry>...</sfw-sip-call-entry>
  </sfw-sip-calls>
</sfw-per-service-set-sip-calls>
```

Description No documentation is available yet.

Contents <sfw-sip-call-entry>—Session Initiation Protocol call.

<sfw-sip-register-entry>

Usage

```
<sfw-sip-registers>
  <sfw-sip-register-entry>
    <sfw-sip-register-protocol>sfw-sip-register-protocol
                </sfw-sip-register-protocol>
    <sfw-sip-register-address>sfw-sip-register-address</sfw-sip-register-address>
    <sfw-sip-register-port>sfw-sip-register-port</sfw-sip-register-port>
    <sfw-sip-register-acked/>
    <sfw-sip-register-expiration>sfw-sip-register-expiration
                </sfw-sip-register-expiration>
    <sfw-sip-register-remaining>sfw-sip-register-remaining
                </sfw-sip-register-remaining>
    <sfw-sip-from>sfw-sip-from</sfw-sip-from>
    <sfw-sip-to>sfw-sip-to</sfw-sip-to>
    <sfw-sip-callid>sfw-sip-callid</sfw-sip-callid>
  </sfw-sip-register-entry>
</sfw-sip-registers>
```

Description Display a SIP register.

Contents <sfw-sip-callid>—SIP call ID.

<sfw-sip-from>—SIP invite from.

<sfw-sip-register-acked>—SIP register is acked by registrar.

<sfw-sip-register-address>—SIP registered IP address.

<sfw-sip-register-expiration>—SIP register expiration timeout.

<sfw-sip-register-port>—SIP registered port.

<sfw-sip-register-protocol>—SIP registration protocol description.

<sfw-sip-register-remaining>—SIP register valid tile expiration.

<sfw-sip-to>—SIP invite to.

<sfw-sip-registers>

Usage

```
<sfw-per-service-set-sip-registrations>
  <sfw-sip-registers>
    <sfw-sip-register-entry>...</sfw-sip-register-entry>
  </sfw-sip-registers>
</sfw-per-service-set-sip-registrations>
```

Description No documentation is available yet.

Contents <sfw-sip-register-entry>—Display a SIP register.

<sfw-stats-service-set-entry>

Usage

```
<service-sfw-statistics-entry>
  <sfw-stats-service-set-entry>
    <service-set-name>service-set-name</service-set-name>
    <total-flow-accepts>total-flow-accepts</total-flow-accepts>
    <total-flow-discards>total-flow-discards</total-flow-discards>
    <total-flow-rejects>total-flow-rejects</total-flow-rejects>
    <total-drops>total-drops</total-drops>
    <new-flow-counters>...</new-flow-counters>
    <existing-flow-counters>...</existing-flow-counters>
    <drop_counters>...</drop_counters>
    <error-counters>...</error-counters>
    <ip-error-counters>...</ip-error-counters>
    <tcp-error-counters>...</tcp-error-counters>
    <udp-error-counters>...</udp-error-counters>
    <icmp-error-counters>...</icmp-error-counters>
    <alg-error-counters>...</alg-error-counters>
    <alg-name>alg-name</alg-name>
    <sip-active-call-count>sip-active-call-count</sip-active-call-count>
    <sip-active-reg-count>sip-active-reg-count</sip-active-reg-count>
    <sip-alg-counters>...</sip-alg-counters>
  </sfw-stats-service-set-entry>
</service-sfw-statistics-entry>
```

Description Stateful firewall service set statistics entry.

Contents

<alg-error-counters>—Extensive output of ALG processing errors.

<alg-name>—Name of the ALG.

<drop_counters>—Drop counters (rules or resource exhaustion).

<error-counters>—Summarized protocol processing errors.

<existing-flow-counters>—Existing flow counters.

<icmp-error-counters>—Extensive output of ICMP processing errors.

<ip-error-counters>—Extensive output of IP processing errors.

<new-flow-counters>—New flow counters.

<service-set-name>—Name of the service set.

<sip-active-call-count>—Number of active SIP calls in the service set.

<sip-active-reg-count>—Number of active SIP registrations in the service set.

<sip-alg-counters>—SIP statistics.

<tcp-error-counters>—Extensive output of TCP processing errors.

<total-drops>—Total packets dropped by protocol processing.

<total-flow-accepts>—Total packets accepted by new and existing flows.

<total-flow-discards>—Total packets discarded by new and existing flows.

<total-flow-rejects>—Total packets rejected by new and existing flows.

<udp-error-counters>—Extensive output of UDP processing errors.

<sip-alg-counters>

Usage

```
<sfw-stats-service-set-entry>
  <sip-alg-counters>
    <total-counters>...</total-counters>
    <parser-counters>...</parser-counters>
    <message-counters>...</message-counters>
  </sip-alg-counters>
</sfw-stats-service-set-entry>
```

Description SIP statistics.

Contents <message-counters>—SIP message counters.

<parser-counters>—Parser statistics.

<total-counters>—Total statistics.

<tcp-error-counters>

Usage

```
<sfw-stats-service-set-entry>
  <tcp-error-counters>
    <tcp-header-length-error>tcp-header-length-error</tcp-header-length-error>
    <tcp-zero-port>tcp-zero-port</tcp-zero-port>
    <illegal-sequence-number-flags>illegal-sequence-number-flags
                </illegal-sequence-number-flags>
    <syn-attack>syn-attack</syn-attack>
    <non-syn-first-packet>non-syn-first-packet</non-syn-first-packet>
    <tcp-port-scan>tcp-port-scan</tcp-port-scan>
    <bad-syn-cookie-response>bad-syn-cookie-response</bad-syn-cookie-response>
    <tcp-recon-sequence-number-error>tcp-recon-sequence-number-error
                </tcp-recon-sequence-number-error>
    <tcp-recon-retransmits>tcp-recon-retransmits</tcp-recon-retransmits>
  </tcp-error-counters>
</sfw-stats-service-set-entry>
```

Description Extensive output of TCP processing errors.

Contents <bad-syn-cookie-response>—Bad SYN cookie response.

<illegal-sequence-number-flags>—Illegal sequence number and flags combinations.

<non-syn-first-packet>—First packet not a SYN message.

<syn-attack>—SYN attack.

<tcp-header-length-error>—TCP header length inconsistencies.

<tcp-port-scan>—TCP port scan.

<tcp-recon-retransmits>—TCP reconstructor retransmissions.

<tcp-recon-sequence-number-error>—TCP reconstructor sequence number error.

<tcp-zero-port>—Source or destination port number is zero.

<total-counters>

Usage

```
<sip-alg-counters>
  <total-counters>
    <total-messages>total-messages</total-messages>
    <call-segments>call-segments</call-segments>
  </total-counters>
</sip-alg-counters>
```

Description Total statistics.

Contents <call-segments>—SIP call segments.

<total-messages>—Total SIP messages.

<udp-error-counters>

Usage

```
<sfw-stats-service-set-entry>
  <udp-error-counters>
    <udp-header-length-error>udp-header-length-error</udp-header-length-error>
    <udp-zero-port>udp-zero-port</udp-zero-port>
    <udp-port-scan>udp-port-scan</udp-port-scan>
  </udp-error-counters>
</sfw-stats-service-set-entry>
```

Description Extensive output of UDP processing errors.

Contents <udp-header-length-error>—IP data length is less than minimum UDP header length (8 bytes).

<udp-port-scan>—UDP port scan (ICMP error seen for UDP flow).

<udp-zero-port>—Source or destination port number is zero.

<uri-redirect-set-statistics>

Usage

```
<uri-redirect-set-statistics-information>
  <uri-redirect-set-statistics>
    <uri-redirect-set-name>uri-redirect-set-name</uri-redirect-set-name>
    <cause-roaming>cause-roaming</cause-roaming>
    <cause-time-of-day>cause-time-of-day</cause-time-of-day>
    <cause-quality-of-service>cause-quality-of-service</cause-quality-of-service>
    <cause-volume-expired>cause-volume-expired</cause-volume-expired>
    <cause-cost-warning>cause-cost-warning</cause-cost-warning>
    <cause-not-allowed>cause-not-allowed</cause-not-allowed>
    <cause-unsubscribed>cause-unsubscribed</cause-unsubscribed>
    <cause-credit-expiry>cause-credit-expiry</cause-credit-expiry>
    <cause-unknown>cause-unknown</cause-unknown>
    <cause-default>cause-default</cause-default>
  </uri-redirect-set-statistics>
</uri-redirect-set-statistics-information>
```

Description Statistics for the URI redirect sets.

Contents <cause-cost-warning>—Number of redirects due to cost warning limit.

<cause-credit-expiry>—Number of redirects due to expiration of credit.

<cause-default>—Number of redirects due to default reason match.

<cause-not-allowed>—Number of redirects due to disallowed service class.

<cause-quality-of-service>—Number of redirects due to QoS.

<cause-roaming>—Number of redirects due to roaming.

<cause-time-of-day>—Number of redirects due to time of day.

<cause-unknown>—Number of redirects due to unknown reason.

<cause-unsubscribed>—Number of redirects due to unsubscribed service class.

<cause-volume-expired>—Number of redirects due to expiration of volume limit.

<uri-redirect-set-name>—Name of header redirect set.

<uri-redirect-set-statistics-information>

Usage

```
<rpc-reply>
  <uri-redirect-set-statistics-information>
    <interface-name>interface-name</interface-name>
    <interfaces>interfaces</interfaces>
    <uri-redirect-set-statistics>...</uri-redirect-set-statistics>
  </uri-redirect-set-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-name>—Name of the adaptive services interface.

<interfaces>—Total number of interfaces summarized.

<uri-redirect-set-statistics>—Statistics for the URI redirect sets.

<usage-counters-entry>

Usage

```
<service-pgcp-statistics-gateway>
  <usage-counters-entry>
    <contexts-number>contexts-number</contexts-number>
    <emergency-contexts-number>emergency-contexts-number
                </emergency-contexts-number>
  </usage-counters-entry>
</service-pgcp-statistics-gateway>
```

Description No documentation is available yet.

Contents <contexts-number>—Number of contexts.

<emergency-contexts-number>—Number of emergency contexts.

<virtual-interface-entry>

Usage

```
<pgcpd-active-configuration | pgcpd-config>
  <virtual-interface-entry>
    <virtual-interface-name>virtual-interface-name</virtual-interface-name>
    <routing-instance>routing-instance</routing-instance>
    <interface-name>interface-name</interface-name>
    <vif-service-state>vif-service-state</vif-service-state>
    <media-service-ref-entry>...</media-service-ref-entry>
  </virtual-interface-entry>
</pgcpd-active-configuration | pgcpd-config>
```

Description No documentation is available yet.

Contents

<interface-name>—Name of the adaptive services interface.

<media-service-ref-entry>—No documentation is available yet.

<routing-instance>—No documentation is available yet.

<vif-service-state>—No documentation is available yet.

<virtual-interface-name>—No documentation is available yet.

Summary of Alarm Response Tags

This section lists JUNOS XML tags that contain operational information about alarms. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-alarm. To review the DTD for the tags, see "DTD for Alarm Response Tags" on page 2029.

<alarm-detail>

Usage

```
<alarm-information>
  <alarm-detail>
    <alarm-time>alarm-time</alarm-time>
    <alarm-class>alarm-class</alarm-class>
    <alarm-description>alarm-description</alarm-description>
    <alarm-short-description>alarm-short-description</alarm-short-description>
    <alarm-type>alarm-type</alarm-type>
  </alarm-detail>
</alarm-information>
```

Description Detailed information about an active alarm.

Contents <alarm-class>—Class of the alarm.

<alarm-description>—Description of the alarm.

<alarm-short-description>—Short description of the alarm.

<alarm-time>—Time of the alarm.

<alarm-type>—Type (class) of the alarm.

<alarm-id-information>

Usage

```
<rpc-reply>
  <alarm-id-information>
    <alarm-id>alarm-id</alarm-id>
  </alarm-id-information>
</rpc-reply>
```

Description Alarm identification information.

Contents <alarm-id>—Alarm identification number.

<alarm-information>

Usage
```
<multi-routing-engine-item>
  <alarm-information>
    <alarm-summary>...</alarm-summary>
    <alarm-detail>...</alarm-detail>
  </alarm-information>
</multi-routing-engine-item>
```

Description Information about all active alarms.

Contents <alarm-detail>—Detailed information about an active alarm.

<alarm-summary>—Number of alarms currently active.

<alarm-summary>

Usage
```
<alarm-information>
  <alarm-summary>
    <active-alarm-count>active-alarm-count</active-alarm-count>
    <no-active-alarms/>
  </alarm-summary>
</alarm-information>
```

Description Number of alarms currently active.

Contents <active-alarm-count>—Number of active alarms.

<no-active-alarms>—No active alarms.

<multi-routing-engine-item>

Usage
```
<multi-routing-engine-results>
  <multi-routing-engine-item>
    <re-name>re-name</re-name>
    <alarm-information>...</alarm-information>
  </multi-routing-engine-item>
</multi-routing-engine-results>
```

Description Information about the active alarms on one Routing Engine on a platform with multiple Routing Engines.

Contents <alarm-information>—Information about all active alarms.

<re-name>—Hostname of the Routing Engine.

<multi-routing-engine-results>

Usage

```
<rpc-reply>
  <multi-routing-engine-results>
    <multi-routing-engine-item>...</multi-routing-engine-item>
  </multi-routing-engine-results>
</rpc-reply>
```

Description Information about alarms on one or more Routing Engines on a platform with multiple Routing Engines.

Contents <multi-routing-engine-item>—Information about the active alarms on one Routing Engine on a platform with multiple Routing Engines.

Summary of ANCP Response Tags

This section lists JUNOS XML tags that contain operational information about ANCP. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ancp. To review the DTD for the tags, see "DTD for ANCP Response Tags" on page 2031.

<ancp-aid-entry>

Usage

```
<ancp-aid-information>
  <ancp-aid-entry>
    <if-type>if-type</if-type>
    <record-number>record-number</record-number>
    <if-name>if-name</if-name>
    <aid-name>aid-name</aid-name>
    <aid-ipaddress>aid-ipaddress</aid-ipaddress>
    <kernel-exist>kernel-exist</kernel-exist>
    <config-exist>config-exist</config-exist>
  </ancp-aid-entry>
</ancp-aid-information>
```

Description No documentation is available yet.

Contents

<aid-ipaddress>—Subscriber IP address.

<aid-name>—Subscriber name.

<config-exist>—Config exist.

<if-name>—Interface name.

<if-type>—Interface type.

<kernel-exist>—Kernel exist.

<record-number>—Record number.

<ancp-aid-information>

Usage

```
<rpc-reply>
  <ancp-aid-information>
    <ancp-aid-entry>...</ancp-aid-entry>
  </ancp-aid-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<ancp-aid-entry>—No documentation is available yet.

<ancp-config-entry>

Usage

```
<ancp-config-information>
  <ancp-config-entry>
    <if-type>if-type</if-type>
    <record-number>record-number</record-number>
    <if-name>if-name</if-name>
    <aid-name>aid-name</aid-name>
    <aid-ipaddress>aid-ipaddress</aid-ipaddress>
  </ancp-config-entry>
</ancp-config-information>
```

Description No documentation is available yet.

Contents <aid-ipaddress>—Subscriber IP address.

<aid-name>—Subscriber name.

<if-name>—Interface name.

<if-type>—Interface type.

<record-number>—Record number.

<ancp-config-information>

Usage

```
<rpc-reply>
  <ancp-config-information>
    <ancp-scalar-entry>...</ancp-scalar-entry>
    <ancp-config-entry>...</ancp-config-entry>
  </ancp-config-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ancp-config-entry>—No documentation is available yet.

<ancp-scalar-entry>—No documentation is available yet.

<ancp-cos-entry>

Usage

```
<ancp-cos-information>
  <ancp-cos-entry>
    <interface-type>interface-type</interface-type>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
    <shaping-rate>shaping-rate</shaping-rate>
    <last-update>last-update</last-update>
  </ancp-cos-entry>
</ancp-cos-information>
```

Description No documentation is available yet.

Contents <interface-index>—Ifl/Iflset Index.

<interface-name>—Ifl/Iflset Name.

<interface-type>—Subscriber's Interface type.

<last-update>—Last Updated Shaping Rate.

<shaping-rate>—Shaping Rate.

<ancp-cos-heading>

Usage

```
<ancp-cos-information>
  <ancp-cos-heading>
    <qos-adjust>qos-adjust</qos-adjust>
    <cos-state>cos-state</cos-state>
    <connect-time>connect-time</connect-time>
    <session-time>session-time</session-time>
    <rtcreate-time>rtcreate-time</rtcreate-time>
    <keepalive-time>keepalive-time</keepalive-time>
    <rate-update-time>rate-update-time</rate-update-time>
    <keepalive-timer>keepalive-timer</keepalive-timer>
  </ancp-cos-heading>
</ancp-cos-information>
```

Description No documentation is available yet.

Contents <connect-time>—Connect Time.

<cos-state>—Cos State.

<keepalive-time>—Keepalive Sent Time.

<keepalive-timer>—Keepalive Timer.

<qos-adjust>—Qos adjust flag.

<rate-update-time>—Rate Update Sent Time.

<rtcreate-time>—Routing Instance Create Time.

<session-time>—Session Sent Time.

<ancp-cos-information>

Usage

```
<rpc-reply>
  <ancp-cos-information>
    <ancp-cos-heading>...</ancp-cos-heading>
    <ancp-cos-entry>...</ancp-cos-entry>
  </ancp-cos-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ancp-cos-entry>—No documentation is available yet.

<ancp-cos-heading>—No documentation is available yet.

<ancp-kernel-entry>

Usage

```
<ancp-kernel-information>
  <ancp-kernel-entry>
    <if-type>if-type</if-type>
    <record-number>record-number</record-number>
    <if-name>if-name</if-name>
    <if-index>if-index</if-index>
    <aid-name>aid-name</aid-name>
    <aid-ipaddress>aid-ipaddress</aid-ipaddress>
  </ancp-kernel-entry>
</ancp-kernel-information>
```

Description No documentation is available yet.

Contents <aid-ipaddress>—Subscriber IP address.

<aid-name>—Subscriber name.

<if-index>—If index.

<if-name>—Interface name.

<if-type>—Interface type.

<record-number>—Record number.

<ancp-kernel-information>

Usage

```
<rpc-reply>
  <ancp-kernel-information>
    <ancp-kernel-entry>...</ancp-kernel-entry>
  </ancp-kernel-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ancp-kernel-entry>—No documentation is available yet.

<ancp-neighbor>

Usage

```
<ancp-neighbor-information | ancp-subscriber-information>
  <ancp-neighbor>
    <received-syn-count>received-syn-count</received-syn-count>
    <received-synack-count>received-synack-count</received-synack-count>
    <received-ack-count>received-ack-count</received-ack-count>
    <received-rstack-count>received-rstack-count</received-rstack-count>
    <received-port-up-count>received-port-up-count</received-port-up-count>
    <received-port-down-count>received-port-down-count</received-port-down-count>
    <received-other-count>received-other-count</received-other-count>
    <sent-syn-count>sent-syn-count</sent-syn-count>
    <sent-synack-count>sent-synack-count</sent-synack-count>
    <sent-ack-count>sent-ack-count</sent-ack-count>
    <sent-rstack-count>sent-rstack-count</sent-rstack-count>
    <max-discovery-limit-exceed-count>max-discovery-limit-exceed-count
            </max-discovery-limit-exceed-count>
    <ip-address>ip-address</ip-address>
    <tcp-port>tcp-port</tcp-port>
    <up-time>up-time</up-time>
    <mac-address>mac-address</mac-address>
    <state>state</state>
    <neighbor-subscriber-count>neighbor-subscriber-count
            </neighbor-subscriber-count>
    <system-instance>system-instance</system-instance>
    <peer-instance>peer-instance</peer-instance>
    <capabilities>capabilities</capabilities>
    <adjacency-time>adjacency-time</adjacency-time>
    <peer-adjacency-time>peer-adjacency-time</peer-adjacency-time>
    <partition-type>partition-type</partition-type>
    <partition-flag>partition-flag</partition-flag>
    <partition-identifier>partition-identifier</partition-identifier>
    <dead-time>dead-time</dead-time>
  </ancp-neighbor>
</ancp-neighbor-information | ancp-subscriber-information>
```

Description Information about a single ANCP neighbor.

Contents

<adjacency-time>—Adjacency time advertised in 100ms.

<capabilities>—Neighbor capabilities.

<dead-time>—Time left to receive an adjacency message.

<ip-address>—Neighbor IP Address.

<mac-address>—Neighbor MAC Address.

<max-discovery-limit-exceed-count>—Count of discovery table entries not created due to limit.

<neighbor-subscriber-count>—Neighbor subscriber-count.

<partition-flag>—Neighbor partition flag.

<partition-identifier>—Neighbor partition identifier.

<partition-type>—Neighbor partition type.

<peer-adjacency-time>—Neighbor adjacency timer value in 100ms.

<peer-instance>—Neighbor peer instance.

<received-ack-count>—Count of ACK messages received.

<received-other-count>—Count of other messages received.

<received-port-down-count>—Count of Port DOWN messages received.

<received-port-up-count>—Count of Port UP messages received.

<received-rstack-count>—Count of RSTACK messages received.

<received-syn-count>—Count of SYN messages received.

<received-synack-count>—Count of SYNACK messages received.

<sent-ack-count>—Count of ACK messages sent.

<sent-rstack-count>—Count of RSTACK messages sent.

<sent-syn-count>—Count of SYN messages sent.

<sent-synack-count>—Count of SYNACK messages sent.

<state>—Neighbor adjacency state.

<system-instance>—Neighbor system instance.

<tcp-port>—TCP port used by connection.

<up-time>—Up Time.

<ancp-neighbor-configuration-entry>

Usage

```
<ancp-neighbor-configuration-information>
  <ancp-neighbor-configuration-entry>
    <record-number>record-number</record-number>
    <ancp-neighbor-ip>ancp-neighbor-ip</ancp-neighbor-ip>
    <ancp-neighbor-discovery-mode>ancp-neighbor-discovery-mode
            </ancp-neighbor-discovery-mode>
    <ancp-neighbor-ietf-mode>ancp-neighbor-ietf-mode</ancp-neighbor-ietf-mode>
    <ancp-neighbor-adjacency-timer>ancp-neighbor-adjacency-timer
            </ancp-neighbor-adjacency-timer>

<ancp-neighbor-maximum-discovery-entries>ancp-neighbor-maximum-discovery-entries
            </ancp-neighbor-maximum-discovery-entries>
  </ancp-neighbor-configuration-entry>
</ancp-neighbor-configuration-information>
```

Description No documentation is available yet.

Contents <ancp-neighbor-adjacency-timer>—Neighbor adjacency timer.

<ancp-neighbor-discovery-mode>—Neighbor discovery mode.

<ancp-neighbor-ietf-mode>—Neighbor IETF mode.

<ancp-neighbor-ip>—Neighbor IP address.

<ancp-neighbor-maximum-discovery-entries>—Maximum discovery table entries per neighbor.

<record-number>—Record number.

<ancp-neighbor-configuration-information>

Usage

```
<rpc-reply>
  <ancp-neighbor-configuration-information>
    <ancp-neighbor-configuration-entry>...</ancp-neighbor-configuration-entry>
  </ancp-neighbor-configuration-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ancp-neighbor-configuration-entry>—No documentation is available yet.

<ancp-neighbor-information>

Usage

```
<rpc-reply>
  <ancp-neighbor-information>
    <ancp-neighbor>...</ancp-neighbor>
  </ancp-neighbor-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ancp-neighbor>—Information about a single ANCP neighbor.

<ancp-scalar-entry>

Usage

```
<ancp-config-information>
  <ancp-scalar-entry>
    <qos-adjust>qos-adjust</qos-adjust>
    <ietf-mode>ietf-mode</ietf-mode>
    <adjacency-timer>adjacency-timer</adjacency-timer>
    <maximum-discovery-entries-neighbor>maximum-discovery-entries-neighbor
                </maximum-discovery-entries-neighbor>
  </ancp-scalar-entry>
</ancp-config-information>
```

Description No documentation is available yet.

Contents <adjacency-timer>—Adjacency timer.

<ietf-mode>—Pre ietf mode flag.

<maximum-discovery-entries-neighbor>—Maximum discovery table entries per neighbor.

<qos-adjust>—Qos adjust flag.

<ancp-statistics-information>

Usage

```
<rpc-reply>
  <ancp-statistics-information>
    <neighbor-count>neighbor-count</neighbor-count>
    <subscriber-count>subscriber-count</subscriber-count>
    <received-syn-count>received-syn-count</received-syn-count>
    <received-synack-count>received-synack-count</received-synack-count>
    <received-ack-count>received-ack-count</received-ack-count>
    <received-rstack-count>received-rstack-count</received-rstack-count>
    <received-port-up-count>received-port-up-count</received-port-up-count>
    <received-port-down-count>received-port-down-count</received-port-down-count>
    <received-other-count>received-other-count</received-other-count>
    <sent-syn-count>sent-syn-count</sent-syn-count>
    <sent-synack-count>sent-synack-count</sent-synack-count>
    <sent-ack-count>sent-ack-count</sent-ack-count>
    <sent-rstack-count>sent-rstack-count</sent-rstack-count>
    <accept-count>accept-count</accept-count>
    <accept-fail-count>accept-fail-count</accept-fail-count>
    <accept-config-deny-count>accept-config-deny-count</accept-config-deny-count>
  </ancp-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<accept-config-deny-count>—Count of session accept denied because of no configuration.

<accept-count>—Count of session accepts.

<accept-fail-count>—Count of session accept failures.

<neighbor-count>—Count of ANCP neighbors in the system.

<received-ack-count>—Count of ACK messages received.

<received-other-count>—Count of other messages received.

<received-port-down-count>—Count of Port DOWN messages received.

<received-port-up-count>—Count of Port UP messages received.

<received-rstack-count>—Count of RSTACK messages received.

<received-syn-count>—Count of SYN messages received.

<received-synack-count>—Count of SYNACK messages received.

<sent-ack-count>—Count of ACK messages sent.

<sent-rstack-count>—Count of RSTACK messages sent.

<sent-syn-count>—Count of SYN messages sent.

<sent-synack-count>—Count of SYNACK messages sent.

<subscriber-count>—Count of ANCP subscribers in the system.

<ancp-subscriber>

Usage

```
<ancp-subscriber-information>
  <ancp-subscriber>
    <access-loop-identifier>access-loop-identifier</access-loop-identifier>
    <access-loop-remote-identifier>access-loop-remote-identifier
            </access-loop-remote-identifier>
    <interface>interface</interface>
    <interface-type>interface-type</interface-type>
    <access-aggregate-circuit-identifier>access-aggregate-circuit-identifier
            </access-aggregate-circuit-identifier>
    <access-aggregate-circuit-binary-identifier>access-aggregate-circuit-binary-identifier
            </access-aggregate-circuit-binary-identifier>
    <dsl-type>dsl-type</dsl-type>
    <actual-net-data-upstream>actual-net-data-upstream</actual-net-data-upstream>
    <actual-net-data-downstream>actual-net-data-downstream
            </actual-net-data-downstream>
    <minimum-net-data-upstream>minimum-net-data-upstream
            </minimum-net-data-upstream>
    <minimum-net-data-downstream>minimum-net-data-downstream
            </minimum-net-data-downstream>
    <maximum-net-data-upstream>maximum-net-data-upstream
            </maximum-net-data-upstream>
    <maximum-net-data-downstream>maximum-net-data-downstream
            </maximum-net-data-downstream>
    <attainable-net-data-upstream>attainable-net-data-upstream
            </attainable-net-data-upstream>
    <attainable-net-data-downstream>attainable-net-data-downstream
            </attainable-net-data-downstream>
    <neighbor-ip-address>neighbor-ip-address</neighbor-ip-address>
    <minimum-low-power-data-upstream>minimum-low-power-data-upstream
            </minimum-low-power-data-upstream>
    <minimum-low-power-data-downstream>minimum-low-power-data-downstream
            </minimum-low-power-data-downstream>
    <maximum-interleave-delay-downstream>maximum-interleave-delay-downstream
            </maximum-interleave-delay-downstream>
    <maximum-interleave-delay-upstream>maximum-interleave-delay-upstream
            </maximum-interleave-delay-upstream>
    <actual-interleave-delay-downstream>actual-interleave-delay-downstream
            </actual-interleave-delay-downstream>
    <actual-interleave-delay-upstream>actual-interleave-delay-upstream
            </actual-interleave-delay-upstream>
    <dsl-line-state>dsl-line-state</dsl-line-state>
    <dsl-line-data-link>dsl-line-data-link</dsl-line-data-link>
    <dsl-line-encapsulation>dsl-line-encapsulation</dsl-line-encapsulation>
    <dsl-line-encapsulation-payload>dsl-line-encapsulation-payload
            </dsl-line-encapsulation-payload>
  </ancp-subscriber>
</ancp-subscriber-information>
```

Description Information about a single ANCP subscriber.

Contents <access-aggregate-circuit-binary-identifier>—Aggregate circuit binary identifier.

<access-aggregate-circuit-identifier>—Aggregate circuit identifier.

<access-loop-identifier>—Subscriber identifier.

<access-loop-remote-identifier>—Subscriber remote identifier.

<actual-interleave-delay-downstream>—Actual interleaving delay down stream.

<actual-interleave-delay-upstream>—Actual interleaving delay up stream.

<actual-net-data-downstream>—Actual Net data down stream.

<actual-net-data-upstream>—Actual Net data.

<attainable-net-data-downstream>—Attainable Net data down stream.

<attainable-net-data-upstream>—Attainable Net data up stream.

<dsl-line-data-link>—DSL data link type.

<dsl-line-encapsulation>—DSL line encapsulation.

<dsl-line-encapsulation-payload>—DSL line encapsulation-payload.

<dsl-line-state>—DSL line state.

<dsl-type>—DSL type.

<interface>—Subscriber's Interface name.

<interface-type>—Subscriber's Interface type.

<maximum-interleave-delay-downstream>—Maximum interleaving delay down stream.

<maximum-interleave-delay-upstream>—Maximum interleaving delay up stream.

<maximum-net-data-downstream>—Maximum Net data down stream.

<maximum-net-data-upstream>—Maximum Net data up stream.

<minimum-low-power-data-downstream>—Minimum Net low power down stream.

<minimum-low-power-data-upstream>—Minimum Net low power up stream.

<minimum-net-data-downstream>—Minimum Net data down stream.

<minimum-net-data-upstream>—Minimum Net data up stream.

<neighbor-ip-address>—IP Address of the ANCP neighbor.

<ancp-subscriber-information>

Usage

```
<rpc-reply>
  <ancp-subscriber-information>
    <ancp-subscriber>...</ancp-subscriber>
    <ancp-neighbor>...</ancp-neighbor>
  </ancp-subscriber-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ancp-neighbor>—Information about a single ANCP neighbor.

<ancp-subscriber>—Information about a single ANCP subscriber.

Summary of APPIDD Response Tags

This section lists JUNOS XML tags that contain operational information about APPIDD. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-appidd. To review the DTD for the tags, see "DTD for APPIDD Response Tags" on page 2037.

<appid-application-system-cache>

Usage

```
<appid-application-system-cache-information>
  <appid-application-system-cache>
    <ip-address>ip-address</ip-address>
    <port>port</port>
    <protocol>protocol</protocol>
    <index>index</index>
    <cpu-id>cpu-id</cpu-id>
  </appid-application-system-cache>
</appid-application-system-cache-information>
```

Description No documentation is available yet.

Contents <cpu-id>—CPU index.

<index>—Index.

<ip-address>—IP address in application system cache.

<port>—Port number.

<protocol>—No documentation is available yet.

<appid-application-system-cache-information>

Usage

```
<rpc-reply>
  <appid-application-system-cache-information>
    <pic>pic</pic>
    <appid-application-system-cache>...</appid-application-system-cache>
  </appid-application-system-cache-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <appid-application-system-cache>—No documentation is available yet.

<pic>—FPC index/PIC index.

<appid-apppack-uninstall>

Usage

```
<rpc-reply>
  <appid-apppack-uninstall>
    <appid-apppack-uninstall-detail>appid-apppack-uninstall-detail
                </appid-apppack-uninstall-detail>
  </appid-apppack-uninstall>
</rpc-reply>
```

Description Uninstall application package.

Contents <appid-apppack-uninstall-detail>—Application package uninstall status.

<appid-counter>

Usage

```
<appid-counter-information>
  <appid-counter>
    <pic>pic</pic>
    <total-sessions>total-sessions</total-sessions>
    <total-matched-sessions>total-matched-sessions</total-matched-sessions>
    <total-unknown-sessions>total-unknown-sessions</total-unknown-sessions>
    <signature-matched-sessions>signature-matched-sessions
                </signature-matched-sessions>
    <signature-unknown-sessions>signature-unknown-sessions
                </signature-unknown-sessions>

<address-matched-sessions>address-matched-sessions</address-matched-sessions>

<address-unknown-sessions>address-unknown-sessions</address-unknown-sessions>
    <port-matched-sessions>port-matched-sessions</port-matched-sessions>
    <port-unknown-sessions>port-unknown-sessions</port-unknown-sessions>
    <icmp-matched-sessions>icmp-matched-sessions</icmp-matched-sessions>
    <icmp-unknown-sessions>icmp-unknown-sessions</icmp-unknown-sessions>
    <ip-protocol-matched-sessions>ip-protocol-matched-sessions
                </ip-protocol-matched-sessions>
    <ip-protocol-unknown-sessions>ip-protocol-unknown-sessions
                </ip-protocol-unknown-sessions>
    <application-system-cache-hit>application-system-cache-hit
                </application-system-cache-hit>
    <application-system-cache-miss>application-system-cache-miss
                </application-system-cache-miss>
  </appid-counter>
</appid-counter-information>
```

Description No documentation is available yet.

Contents

<address-matched-sessions>—No documentation is available yet.

<address-unknown-sessions>—No documentation is available yet.

<application-system-cache-hit>—No documentation is available yet.

<application-system-cache-miss>—No documentation is available yet.

<icmp-matched-sessions>—Number of sessions identified by ICMP method.

<icmp-unknown-sessions>—Number of sessions not identified by ICMP method.

<ip-protocol-matched-sessions>—Number of sessions identified by IP protocol method.

<ip-protocol-unknown-sessions>—Number of sessions not identified by IP protocol method.

<pic>—FPC index/PIC index.

<port-matched-sessions>—No documentation is available yet.

<port-unknown-sessions>—No documentation is available yet.

<signature-matched-sessions>—No documentation is available yet.

<signature-unknown-sessions>—No documentation is available yet.

<total-matched-sessions>—No documentation is available yet.

<total-sessions>—No documentation is available yet.

<total-unknown-sessions>—No documentation is available yet.

<appid-counter-information>

Usage
```
<rpc-reply>
  <appid-counter-information>
    <appid-counter>...</appid-counter>
  </appid-counter-information>
</rpc-reply>
```

Description Application identification counters.

Contents <appid-counter>—No documentation is available yet.

<appid-package-version>

Usage
```
<rpc-reply>
  <appid-package-version>
    <version-detail>version-detail</version-detail>
  </appid-package-version>
</rpc-reply>
```

Description No documentation is available yet.

Contents <version-detail>—Application package version.

<apppack-download-status>

Usage
```
<rpc-reply>
  <apppack-download-status>
    <apppack-download-status-detail>apppack-download-status-detail
                </apppack-download-status-detail>
  </apppack-download-status>
</rpc-reply>
```

Description Status of application package download.

Contents <apppack-download-status-detail>—Application package download status.

Summary of APS Response Tags

This section lists JUNOS XML tags that contain operational information about Automatic Protection Switching (APS). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-aps. To review the DTD for the tags, see "DTD for APS Response Tags" on page 2039.

<aps-interface>

Usage

```
<aps-interface-information>
  <aps-interface>
    <aps-interface-name>aps-interface-name</aps-interface-name>
    <aps-interface-group>aps-interface-group</aps-interface-group>
    <aps-interface-circuit-type>aps-interface-circuit-type
            </aps-interface-circuit-type>
    <aps-interface-circuit-state>aps-interface-circuit-state
            </aps-interface-circuit-state>
    <aps-interface-state>aps-interface-state</aps-interface-state>
    <aps-neighbor>aps-neighbor</aps-neighbor>
    <aps-adjacent-state>aps-adjacent-state</aps-adjacent-state>
    <aps-neighbor-select-state>aps-neighbor-select-state
            </aps-neighbor-select-state>
    <aps-time-remaining>aps-time-remaining</aps-time-remaining>
    <aps-channel-state>aps-channel-state</aps-channel-state>
    <aps-config-state>aps-config-state</aps-config-state>
    <aps-config-state-circuit>aps-config-state-circuit</aps-config-state-circuit>
    <aps-loop-circuit-type>aps-loop-circuit-type</aps-loop-circuit-type>
    <aps-loop-circuit-name>aps-loop-circuit-name</aps-loop-circuit-name>
    <aps-pair-interface-name>aps-pair-interface-name</aps-pair-interface-name>
    <aps-pair-group-name>aps-pair-group-name</aps-pair-group-name>
    <aps-local-mode>aps-local-mode</aps-local-mode>
    <aps-neighbor-mode>aps-neighbor-mode</aps-neighbor-mode>
    <aps-request-k1>aps-request-k1</aps-request-k1>
    <aps-request-k2>aps-request-k2</aps-request-k2>
    <aps-receive-k1>aps-receive-k1</aps-receive-k1>
    <aps-transmit-k1>aps-transmit-k1</aps-transmit-k1>
    <aps-receive-k2>aps-receive-k2</aps-receive-k2>
    <aps-transmit-k2>aps-transmit-k2</aps-transmit-k2>
    <aps-neighbor-k1>aps-neighbor-k1</aps-neighbor-k1>
    <aps-neighbor-paired-request>aps-neighbor-paired-request
            </aps-neighbor-paired-request>
    <aps-revert-time>aps-revert-time</aps-revert-time>
    <aps-wait-to-restore-time>aps-wait-to-restore-time</aps-wait-to-restore-time>
    <aps-annex-b>aps-annex-b</aps-annex-b>
    <aps-neighbor-revert-time>aps-neighbor-revert-time</aps-neighbor-revert-time>
    <aps-neighbor-wait-to-restore-time>aps-neighbor-wait-to-restore-time
            </aps-neighbor-wait-to-restore-time>
    <aps-remaining-revert-time>aps-remaining-revert-time
            </aps-remaining-revert-time>
    <aps-remaining-wait-to-restore-time>aps-remaining-wait-to-restore-time
            </aps-remaining-wait-to-restore-time>
    <aps-remaining-forced-revert-time>aps-remaining-forced-revert-time
            </aps-remaining-forced-revert-time>
    <aps-remaining-hello-timer>aps-remaining-hello-timer
            </aps-remaining-hello-timer>
    <aps-remaining-update-timer>aps-remaining-update-timer
            </aps-remaining-update-timer>
    <aps-remaining-holddown-timer>aps-remaining-holddown-timer
            </aps-remaining-holddown-timer>
  </aps-interface>
</aps-interface-information>
```

Description Information about an Automatic Protection Switching interface.

Contents <aps-adjacent-state>—Adjacent state.

<aps-annex-b>—Annex-b mode.

<aps-channel-state>—State of the channel.

<aps-config-state>—State of config.

<aps-config-state-circuit>—State of circuit config.

<aps-interface-circuit-state>—State of the circuit.

<aps-interface-circuit-type>—Type of the circuit.

<aps-interface-group>—Name of the interface group.

<aps-interface-name>—Name of the interface.

<aps-interface-state>—State of the interface.

<aps-local-mode>—APS local mode.

<aps-loop-circuit-name>—Loop circuit name.

<aps-loop-circuit-type>—Loop circuit type.

<aps-neighbor>—Neighbor address.

<aps-neighbor-k1>—Neighbor K1 value.

<aps-neighbor-mode>—APS neighbor mode.

<aps-neighbor-paired-request>—Neighbor paired switch request.

<aps-neighbor-revert-time>—Neighbor revert time.

<aps-neighbor-select-state>—Neighbor interface state.

<aps-neighbor-wait-to-restore-time>—APS annex-b neighbor wait to restore time.

<aps-pair-group-name>—Paired group name.

<aps-pair-interface-name>—Paired interface name.

<aps-receive-k1>—Receive K1 value.

<aps-receive-k2>—Receive K2 value.

<aps-remaining-forced-revert-time>—Remaining forced revert time.

<aps-remaining-hello-timer>—Remaining hello timer.

<aps-remaining-holddown-timer>—Remaining holddown timer.

<aps-remaining-revert-time>—Remaining revert time.

<aps-remaining-update-timer>—Remaining update timer.

<aps-remaining-wait-to-restore-time>—Remaining wait to restore time.

<aps-request-k1>—Request K1 value.

<aps-request-k2>—Request K2 value.

<aps-revert-time>—APS revert time.

<aps-time-remaining>—Remaining time.

<aps-transmit-k1>—Transmit K1 value.

<aps-transmit-k2>—Transmit K2 value.

<aps-wait-to-restore-time>—APS annex-b wait to restore time.

<aps-interface-information>

Usage

```
<rpc-reply>
  <aps-interface-information>
    <aps-interface>...</aps-interface>
  </aps-interface-information>
</rpc-reply>
```

Description Information about one or more Automatic Protection Switching interfaces.

Contents <aps-interface>—Information about an Automatic Protection Switching interface.

Summary of ARP Response Tags

This section lists JUNOS XML tags that contain operational information about the Address Resolution Protocol (ARP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-arp. To review the DTD for the tags, see "DTD for ARP Response Tags" on page 2041.

<arp-table-entry>

Usage

```
<arp-table-information>
  <arp-table-entry>
    <mac-address>mac-address</mac-address>
    <ip-address>ip-address</ip-address>
    <hostname>hostname</hostname>
    <interface-name>interface-name</interface-name>
    <arp-table-entry-flags>...</arp-table-entry-flags>
    <time-to-expire>time-to-expire</time-to-expire>
  </arp-table-entry>
</arp-table-information>
```

Description Information about an entry in the ARP table.

Contents <arp-table-entry-flags>—One or more status flags for the ARP entry.

<hostname>—Resolved hostname of the ARP entry.

<interface-name>—Name of the interface associated with the ARP entry.

<ip-address>—IP address of the ARP entry.

<mac-address>—Hardware MAC address associated with the ARP entry.

<time-to-expire>—Seconds remaining until the entry expires.

<arp-table-entry-flags>

Usage
```
<arp-table-entry>
  <arp-table-entry-flags>
    <none/>
    <permanent/>
    <published/>
    <dead/>
    <free/>
  </arp-table-entry-flags>
</arp-table-entry>
```

Description One or more status flags for the ARP entry.

Contents <dead>—ARP entry is dead.

<free>—ARP entry is free.

<none>—ARP entry has no flags.

<permanent>—ARP entry is permanent.

<published>—ARP entry is published.

<arp-table-information>

Usage
```
<rpc-reply>
  <arp-table-information>
    <arp-table-entry>...</arp-table-entry>
    <arp-entry-count>arp-entry-count</arp-entry-count>
  </arp-table-information>
</rpc-reply>
```

Description Information about one or more entries in the ARP table.

Contents <arp-entry-count>—Total number of ARP table entries.

<arp-table-entry>—Information about an entry in the ARP table.

<clear-arp-table-result>

Usage
```
<clear-arp-table-results>
  <clear-arp-table-result>
    <ip-address>ip-address</ip-address>
    <clear-success/>
  </clear-arp-table-result>
</clear-arp-table-results>
```

Description Results of a clear ARP command.

Contents <clear-success>—Clear ARP was successful.

<ip-address>—IP address of the ARP entry.

<clear-arp-table-results>

Usage

```
<rpc-reply>
  <clear-arp-table-results>
    <clear-arp-table-result>...</clear-arp-table-result>
  </clear-arp-table-results>
</rpc-reply>
```

Description Clear ARP table entry results.

Contents <clear-arp-table-result>—Results of a clear ARP command.

Summary of Authentication Response Tags

This section lists JUNOS XML tags that contain operational information about authentication. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-auth. To review the DTD for the tags, see "DTD for Authentication Response Tags" on page 2043.

<aaa-module-accounting-statistics>

Usage

```
<aaa-module-statistics>
  <aaa-module-accounting-statistics>
    <requests>requests</requests>
    <accounting-response-failures>accounting-response-failures
                </accounting-response-failures>
    <accounting-response-success>accounting-response-success
                </accounting-response-success>
    <timeouts>timeouts</timeouts>
  </aaa-module-accounting-statistics>
</aaa-module-statistics>
```

Description No documentation is available yet.

Contents <accounting-response-failures>—Number of accounting response failures.

<accounting-response-success>—Number of successful accounting responses.

<requests>—Number of requests received.

<timeouts>—Number of requests timed out.

<aaa-module-authentication-statistics>

Usage

```
<aaa-module-statistics>
  <aaa-module-authentication-statistics>
    <requests>requests</requests>
    <accepts>accepts</accepts>
    <rejects>rejects</rejects>
    <challenges>challenges</challenges>
    <timeouts>timeouts</timeouts>
  </aaa-module-authentication-statistics>
</aaa-module-statistics>
```

Description No documentation is available yet.

Contents <accepts>—Number of authentication accepts.

<challenges>—Number of authentication challenges.

<rejects>—Number of authentication rejects.

<requests>—Number of requests received.

<timeouts>—Number of requests timed out.

<aaa-module-dynamic-requests-statistics>

Usage

```
<aaa-module-statistics>
  <aaa-module-dynamic-requests-statistics>
    <requests>requests</requests>
    <processed-ok>processed-ok</processed-ok>
    <processing-error>processing-error</processing-error>
    <silent-drops>silent-drops</silent-drops>
  </aaa-module-dynamic-requests-statistics>
</aaa-module-statistics>
```

Description No documentation is available yet.

Contents <processed-ok>—Number of requests successfully processed.

<processing-error>—Number of requests unsuccessfully processed.

<requests>—Number of requests received.

<silent-drops>—Number of requests silently dropped.

<aaa-module-statistics>

Usage

```
<rpc-reply>
  <aaa-module-statistics>
    <requests>requests</requests>
    <accepts>accepts</accepts>
    <rejects>rejects</rejects>
    <accounting-response-failures>accounting-response-failures
                </accounting-response-failures>
    <accounting-response-success>accounting-response-success
                </accounting-response-success>
    <timeouts>timeouts</timeouts>
    <challenges>challenges</challenges>
    <processed-ok>processed-ok</processed-ok>
    <processing-error>processing-error</processing-error>
    <silent-drops>silent-drops</silent-drops>
    <aaa-module-authentication-statistics>...
                </aaa-module-authentication-statistics>
    <aaa-module-accounting-statistics>...</aaa-module-accounting-statistics>
    <aaa-module-dynamic-requests-statistics>...
                </aaa-module-dynamic-requests-statistics>
  </aaa-module-statistics>
</rpc-reply>
```

Description Statistics for the authentication authorization and accounting (AAA) modules.

Contents <aaa-module-accounting-statistics>—No documentation is available yet.

<aaa-module-authentication-statistics>—No documentation is available yet.

<aaa-module-dynamic-requests-statistics>—No documentation is available yet.

<accepts>—Number of authentication accepts.

<accounting-response-failures>—Number of accounting response failures.

<accounting-response-success>—Number of successful accounting responses.

<challenges>—Number of authentication challenges.

<processed-ok>—Number of requests successfully processed.

<processing-error>—Number of requests unsuccessfully processed.

<rejects>—Number of authentication rejects.

<requests>—Number of requests received.

<silent-drops>—Number of requests silently dropped.

<timeouts>—Number of requests timed out.

<aaa-subscriber-accounting-statistics>

Usage

```
<aaa-subscriber-statistics>
  <aaa-subscriber-accounting-statistics>
    <accounting-start-sent-successfully>accounting-start-sent-successfully
                </accounting-start-sent-successfully>
    <accounting-start-send-failed>accounting-start-send-failed
                </accounting-start-send-failed>
    <accounting-start-responses>accounting-start-responses
                </accounting-start-responses>
    <accounting-interim-sent-successfully>accounting-interim-sent-successfully
                </accounting-interim-sent-successfully>
    <accounting-interim-send-failed>accounting-interim-send-failed
                </accounting-interim-send-failed>
    <accounting-interim-responses>accounting-interim-respnses
                </accounting-interim-responses>
    <accounting-stop-on-failure-sent-successfully>accnting-stp-on-flure-sent-successfully
                </accounting-stop-on-failure-sent-successfully>
    <accounting-stop-on-failure-send-failed>accounting-stop-on-failure-send-failed
                </accounting-stop-on-failure-send-failed>
    <accounting-stop-on-failure-responses>accounting-stop-on-failure-responses
                </accounting-stop-on-failure-responses>
    <accounting-stop-sent-successfully>accounting-stop-sent-successfully
                </accounting-stop-sent-successfully>
    <accounting-stop-send-failed>accounting-stop-send-failed
                </accounting-stop-send-failed>
    <accounting-stop-responses>accounting-stop-responses
                </accounting-stop-responses>
  </aaa-subscriber-accounting-statistics>
</aaa-subscriber-statistics>
```

Description No documentation is available yet.

Contents

<accounting-interim-responses>—Number of INTERIM ack received.

<accounting-interim-send-failed>—Number of INTERIM send failures.

<accounting-interim-sent-successfully>—Number of INTERIM messages sent successfully.

<accounting-start-responses>—Number of START ack received.

<accounting-start-send-failed>—Number of START send failures.

<accounting-start-sent-successfully>—Number of START messages sent successfully.

<accounting-stop-on-failure-responses>—Number of STOP-on-failure ack received.

<accounting-stop-on-failure-send-failed>—Number of STOP-on-failure send failures.

<accounting-stop-on-failure-sent-successfully>—Number of STOP-on-failure messages sent successfully.

<accounting-stop-responses>—Number of STOP ack received.

<accounting-stop-send-failed>—Number of STOP send failures.

<accounting-stop-sent-successfully>—Number of STOP messages sent successfully.

<aaa-subscriber-auth-statistics>

Usage
```
<aaa-subscriber-statistics>
  <aaa-subscriber-auth-statistics>
    <authentication-challenge-requests>authentication-challenge-requests
                </authentication-challenge-requests>
    <authentication-challenge-responses>authentication-challenge-responses
                </authentication-challenge-responses>
  </aaa-subscriber-auth-statistics>
</aaa-subscriber-statistics>
```

Description No documentation is available yet.

Contents <authentication-challenge-requests>—Number of authentication challenge requests.

<authentication-challenge-responses>—Number of authentication challenge responses.

<aaa-subscriber-service-statistics>

Usage
```
<aaa-subscriber-statistics>
  <aaa-subscriber-service-statistics>
    <service-creates>service-creates</service-creates>
    <service-deletes>service-deletes</service-deletes>
    <service-timeouts>service-timeouts</service-timeouts>
  </aaa-subscriber-service-statistics>
</aaa-subscriber-statistics>
```

Description No documentation is available yet.

Contents <service-creates>—Number of services creations received.

<service-deletes>—Number of service deletions received .

<service-timeouts>—Number of service timeouts.

<aaa-subscriber-statistics>

Usage

```
<aaa-subscriber-table-details>
  <aaa-subscriber-statistics>
    <authentication-challenge-requests>authentication-challenge-requests
                </authentication-challenge-requests>
    <authentication-challenge-responses>authentication-challenge-responses
                </authentication-challenge-responses>
    <accounting-start-sent-successfully>accounting-start-sent-successfully
                </accounting-start-sent-successfully>
    <accounting-start-send-failed>accounting-start-send-failed
                </accounting-start-send-failed>
    <accounting-start-responses>accounting-start-responses
                </accounting-start-responses>
    <accounting-interim-sent-successfully>accounting-interim-sent-successfully
                </accounting-interim-sent-successfully>
    <accounting-interim-send-failed>accounting-interim-send-failed
                </accounting-interim-send-failed>
    <accounting-interim-responses>accounting-interim-responses
                </accounting-interim-responses>

<accounting-stop-on-failure-sent-successfully>accounting-stop-on-failure-sent-successfull
y
                </accounting-stop-on-failure-sent-successfully>
    <accounting-stop-on-failure-send-failed>accounting-stop-on-failure-send-failed
                </accounting-stop-on-failure-send-failed>
    <accounting-stop-on-failure-responses>accounting-stop-on-failure-responses
                </accounting-stop-on-failure-responses>
    <accounting-stop-sent-successfully>accounting-stop-sent-successfully
                </accounting-stop-sent-successfully>
    <accounting-stop-send-failed>accounting-stop-send-failed
                </accounting-stop-send-failed>
    <accounting-stop-responses>accounting-stop-responses
                </accounting-stop-responses>
    <service-creates>service-creates</service-creates>
    <service-deletes>service-deletes</service-deletes>
    <service-timeouts>service-timeouts</service-timeouts>
    <aaa-subscriber-auth-statistics>...</aaa-subscriber-auth-statistics>
    <aaa-subscriber-accounting-statistics>...
                </aaa-subscriber-accounting-statistics>
    <aaa-subscriber-service-statistics>...</aaa-subscriber-service-statistics>
  </aaa-subscriber-statistics>
</aaa-subscriber-table-details>
```

Description No documentation is available yet.

Contents <aaa-subscriber-accounting-statistics>—No documentation is available yet.

<aaa-subscriber-auth-statistics>—No documentation is available yet.

<aaa-subscriber-service-statistics>—No documentation is available yet.

<accounting-interim-responses>—Number of INTERIM ack received.

<accounting-interim-send-failed>—Number of INTERIM send failures.

<accounting-interim-sent-successfully>—Number of INTERIM messages sent successfully.

<accounting-start-responses>—Number of START ack received.

<accounting-start-send-failed>—Number of START send failures.

<accounting-start-sent-successfully>—Number of START messages sent successfully.

<accounting-stop-on-failure-responses>—Number of STOP-on-failure ack received.

<accounting-stop-on-failure-send-failed>—Number of STOP-on-failure send failures.

<accounting-stop-on-failure-sent-successfully>—Number of STOP-on-failure messages sent successfully.

<accounting-stop-responses>—Number of STOP ack received.

<accounting-stop-send-failed>—Number of STOP send failures.

<accounting-stop-sent-successfully>—Number of STOP messages sent successfully.

<authentication-challenge-requests>—Number of authentication challenge requests.

<authentication-challenge-responses>—Number of authentication challenge responses.

<service-creates>—Number of services creations received.

<service-deletes>—Number of service deletions received .

<service-timeouts>—Number of service timeouts.

<aaa-subscriber-table>

Usage

```
<aaa-subscriber-table-details>
  <aaa-subscriber-table>
    <aaa-subscriber-table-entry>...</aaa-subscriber-table-entry>
    <aaa-subscriber-table-entry-details>...</aaa-subscriber-table-entry-details>
    <aaa-subscriber-table-logical-system-routing-instance-entries>...
                </aaa-subscriber-table-logical-system-routing-instance-entries>
    <aaa-subscriber-table-entry-service-details>...
                </aaa-subscriber-table-entry-service-details>
  </aaa-subscriber-table>
</aaa-subscriber-table-details>
```

Description No documentation is available yet.

Contents <aaa-subscriber-table-entry>—No documentation is available yet.

<aaa-subscriber-table-entry-details>—No documentation is available yet.

<aaa-subscriber-table-entry-service-details>—No documentation is available yet.

<aaa-subscriber-table-logical-system-routing-instance-entries>—No documentation is available yet.

<aaa-subscriber-table-details>

Usage

```
<rpc-reply>
  <aaa-subscriber-table-details>
    <aaa-subscriber-table>...</aaa-subscriber-table>
    <aaa-subscriber-statistics>...</aaa-subscriber-statistics>
  </aaa-subscriber-table-details>
</rpc-reply>
```

Description Information about authentication, authorization and accounting (AAA) subscriber table.

Contents <aaa-subscriber-statistics>—No documentation is available yet.

<aaa-subscriber-table>—No documentation is available yet.

<aaa-subscriber-table-entry>

Usage

```
<aaa-subscriber-table>
  <aaa-subscriber-table-entry>
    <user-name>user-name</user-name>
    <logical-system-routing-instance>logical-system-routing-instance
                </logical-system-routing-instance>
    <client-type>client-type</client-type>
    <session-id>session-id</session-id>
  </aaa-subscriber-table-entry>
</aaa-subscriber-table>
```

Description No documentation is available yet.

Contents <client-type>—Subscriber type.

<logical-system-routing-instance>—Logical system/Routing instance this subscriber session is part of.

<session-id>—Session ID.

<user-name>—Username for the user being authenticated.

<aaa-subscriber-table-entry-details>

Usage

```
<aaa-subscriber-table>
  <aaa-subscriber-table-entry-details>
    <logical-system-routing-instance>logical-system-routing-instance
                </logical-system-routing-instance>
    <client-type>client-type</client-type>
    <session-uptime>session-uptime</session-uptime>
    <accounting-status>accounting-status</accounting-status>
  </aaa-subscriber-table-entry-details>
</aaa-subscriber-table>
```

Description No documentation is available yet.

Contents <accounting-status>—Subscriber session's accounting configuration details.

<client-type>—Subscriber type.

<logical-system-routing-instance>—Logical system/Routing instance this subscriber session is part of.

<session-uptime>—Duration since this subscriber session has been authenticated and active.

<aaa-subscriber-table-entry-service-details>

Usage

```
<aaa-subscriber-table>
  <aaa-subscriber-table-entry-service-details>
    <service-name>service-name</service-name>
    <service-type>service-type</service-type>
    <service-quota>service-quota</service-quota>
    <accounting-status>accounting-status</accounting-status>
  </aaa-subscriber-table-entry-service-details>
</aaa-subscriber-table>
```

Description No documentation is available yet.

Contents <accounting-status>—Subscriber session's accounting configuration details.

<service-name>—Service associated with the subscriber's session.

<service-quota>—Quota for this service type.

<service-type>—Service type (volume/time based) associated with the subscriber's session.

<aaa-subscriber-table-logical-system-routing-instance-entries>

Usage

```
<aaa-subscriber-table>
  <aaa-subscriber-table-logical-system-routing-instance-entries>
    <user-name>user-name</user-name>
    <client-type>client-type</client-type>
    <logical-system-routing-instance>logical-system-routing-instance
                    </logical-system-routing-instance>
  </aaa-subscriber-table-logical-system-routing-instance-entries>
</aaa-subscriber-table>
```

Description No documentation is available yet.

Contents <client-type>—Subscriber type.

<logical-system-routing-instance>—Logical system/Routing instance this subscriber session is part of.

<user-name>—Username for the user being authenticated.

<address-assignment-pool-entry>

Usage
```
<address-assignment-pool-table>
  <address-assignment-pool-entry>
    <ip-address>ip-address</ip-address>
    <hardware-address>hardware-address</hardware-address>
    <subscriber-type>subscriber-type</subscriber-type>
  </address-assignment-pool-entry>
</address-assignment-pool-table>
```

Description No documentation is available yet.

Contents <hardware-address>—Hardware address of the client.

<ip-address>—IPv4 address assigned to the client.

<subscriber-type>—Subscriber type.

<address-assignment-pool-table>

Usage
```
<address-assignment-pool-table-details>
  <address-assignment-pool-table>
    <address-assignment-pool-entry>...</address-assignment-pool-entry>
  </address-assignment-pool-table>
</address-assignment-pool-table-details>
```

Description No documentation is available yet.

Contents <address-assignment-pool-entry>—No documentation is available yet.

<address-assignment-pool-table-details>

Usage
```
<rpc-reply>
  <address-assignment-pool-table-details>
    <address-assignment-pool-table>...</address-assignment-pool-table>
  </address-assignment-pool-table-details>
</rpc-reply>
```

Description Information about address-assignment pool.

Contents <address-assignment-pool-table>—No documentation is available yet.

<auth-pending-entry>

Usage

```
<auth-pending-table>
  <auth-pending-entry>
    <index>index</index>
    <auth-status>auth-status</auth-status>
    <profile-name>profile-name</profile-name>
    <user-name>user-name</user-name>
  </auth-pending-entry>
</auth-pending-table>
```

Description No documentation is available yet.

Contents <auth-status>—Current authentication status for the request entry.

<index>—Index of the authentication request entry.

<profile-name>—Profile-name using which the user is being authenticated.

<user-name>—Username for the user being authenticated.

<auth-pending-table>

Usage

```
<auth-pending-table-details>
  <auth-pending-table>
    <auth-pending-entry>...</auth-pending-entry>
  </auth-pending-table>
</auth-pending-table-details>
```

Description No documentation is available yet.

Contents <auth-pending-entry>—No documentation is available yet.

<auth-pending-table-details>

Usage

```
<rpc-reply>
  <auth-pending-table-details>
    <auth-pending-table-info>...</auth-pending-table-info>
    <auth-pending-table>...</auth-pending-table>
  </auth-pending-table-details>
</rpc-reply>
```

Description Information about pending authentication requests.

Contents <auth-pending-table>—No documentation is available yet.

<auth-pending-table-info>—No documentation is available yet.

<auth-pending-table-info>

Usage
```
<auth-pending-table-details>
  <auth-pending-table-info>
    <auth-pending-total-entries>auth-pending-total-entries
                </auth-pending-total-entries>
  </auth-pending-table-info>
</auth-pending-table-details>
```

Description No documentation is available yet.

Contents <auth-pending-total-entries>—No documentation is available yet.

<auth-statistics>

Usage
```
<rpc-reply>
  <auth-statistics>
    <total-statistics>...</total-statistics>
    <radius-auth-statistics>...</radius-auth-statistics>
    <ldap-auth-statistics>...</ldap-auth-statistics>
    <securid-auth-statistics>...</securid-auth-statistics>
    <local-auth-statistics>...</local-auth-statistics>
  </auth-statistics>
</rpc-reply>
```

Description Authentication statistics.

Contents <ldap-auth-statistics>—No documentation is available yet.

<local-auth-statistics>—No documentation is available yet.

<radius-auth-statistics>—No documentation is available yet.

<securid-auth-statistics>—No documentation is available yet.

<total-statistics>—No documentation is available yet.

<ldap-auth-statistics>

Usage
```
<auth-statistics>
  <ldap-auth-statistics>
    <total-requests>total-requests</total-requests>
    <success-responses>success-responses</success-responses>
    <failure-responses>failure-responses</failure-responses>
  </ldap-auth-statistics>
</auth-statistics>
```

Description No documentation is available yet.

Contents <failure-responses>—Number of failed authentication requests.

<success-responses>—Number of succeeded authentication requests.

<total-requests>—Number of authentication requests received.

<local-auth-statistics>

Usage

```
<auth-statistics>
  <local-auth-statistics>
    <total-requests>total-requests</total-requests>
    <success-responses>success-responses</success-responses>
    <failure-responses>failure-responses</failure-responses>
  </local-auth-statistics>
</auth-statistics>
```

Description No documentation is available yet.

Contents <failure-responses>—Number of failed authentication requests.

<success-responses>—Number of succeeded authentication requests.

<total-requests>—Number of authentication requests received.

<node-secret-file-table>

Usage

```
<rpc-reply>
  <node-secret-file-table>
    <node-secret-file-table-entry>...</node-secret-file-table-entry>
  </node-secret-file-table>
</rpc-reply>
```

Description Information about SecurID authentication node secret files.

Contents <node-secret-file-table-entry>—No documentation is available yet.

<node-secret-file-table-entry>

Usage

```
<node-secret-file-table>
  <node-secret-file-table-entry>
    <server-name>server-name</server-name>
    <node-secret-file>node-secret-file</node-secret-file>
  </node-secret-file-table-entry>
</node-secret-file-table>
```

Description No documentation is available yet.

Contents <node-secret-file>—Path of the node secret file.

<server-name>—Name of the SecurID server associated with this node secret file.

<radius-auth-statistics>

Usage
```
<auth-statistics>
  <radius-auth-statistics>
    <total-requests>total-requests</total-requests>
    <success-responses>success-responses</success-responses>
    <failure-responses>failure-responses</failure-responses>
  </radius-auth-statistics>
</auth-statistics>
```

Description No documentation is available yet.

Contents <failure-responses>—Number of failed authentication requests.

<success-responses>—Number of succeeded authentication requests.

<total-requests>—Number of authentication requests received.

<securid-auth-statistics>

Usage
```
<auth-statistics>
  <securid-auth-statistics>
    <total-requests>total-requests</total-requests>
    <success-responses>success-responses</success-responses>
    <failure-responses>failure-responses</failure-responses>
  </securid-auth-statistics>
</auth-statistics>
```

Description No documentation is available yet.

Contents <failure-responses>—Number of failed authentication requests.

<success-responses>—Number of succeeded authentication requests.

<total-requests>—Number of authentication requests received.

<total-statistics>

Usage
```
<auth-statistics>
  <total-statistics>
    <total-requests>total-requests</total-requests>
    <total-responses>total-responses</total-responses>
  </total-statistics>
</auth-statistics>
```

Description No documentation is available yet.

Contents <total-requests>—Number of authentication requests received.

<total-responses>—Number of authentication requests replied to.

Summary of Autoinstallation Response Tags

This section lists JUNOS XML tags that contain operational information about autoinstallation on J Series routers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-autoinstallation. To review the DTD for the tags, see "DTD for Autoinstallation Response Tags" on page 2047.

<autoinstallation-status-information>

Usage

```
<rpc-reply>
  <autoinstallation-status-information>
    <master-state>master-state</master-state>
    <last-configuration-filename>last-configuration-filename
                </last-configuration-filename>
    <last-configuration-server>last-configuration-server
                </last-configuration-server>
    <autoinstallation-status-interface-information>...
                </autoinstallation-status-interface-information>
  </autoinstallation-status-information>
</rpc-reply>
```

Description Autoinstallation status.

Contents <autoinstallation-status-interface-information>—Autoinstallation status for a particular interface.

<last-configuration-filename>—Name of last configuration file committed.

<last-configuration-server>—IP address of last configuration server.

<master-state>—State of master state machine.

<autoinstallation-status-interface-address-information>

Usage

```
<autoinstallation-status-interface-information>
  <autoinstallation-status-interface-address-information>
    <protocol-name>protocol-name</protocol-name>
    <protocol-address>protocol-address</protocol-address>
  </autoinstallation-status-interface-address-information>
</autoinstallation-status-interface-information>
```

Description Autoinstallation status for address acquisition protocols on a particular interface.

Contents <protocol-address>—Address acquired on this interface using this address acquisition protocol.

<protocol-name>—Address acquisition protocol on this interface.

<autoinstallation-status-interface-information>

Usage

```
<autoinstallation-status-information>
  <autoinstallation-status-interface-information>
    <interface-name>interface-name</interface-name>
    <interface-state>interface-state</interface-state>
    <interface-acquired-address>interface-acquired-address
            </interface-acquired-address>
    <interface-acquired-hostname>interface-acquired-hostname
            </interface-acquired-hostname>
    <interface-acquired-hostname-source>interface-acqrd-hstnm-src
            </interface-acquired-hostname-source>
    <interface-acquired-configuration-filename>interface-acqrd-hstnm-src
            </interface-acquired-configuration-filename>
    <interface-acquired-configuration-server>interface-acquired-configuration-server
            </interface-acquired-configuration-server>
    <autoinstallation-status-interface-address-information>...
            </autoinstallation-status-interface-address-information>
  </autoinstallation-status-interface-information>
</autoinstallation-status-information>
```

Description Autoinstallation status for a particular interface.

Contents

<autoinstallation-status-interface-address-information>—Autoinstallation status for address acquisition protocols on a particular interface.

<interface-acquired-address>—IP address acquired on this interface.

<interface-acquired-configuration-filename>—Name of configuration file acquired on this interface.

<interface-acquired-configuration-server>—IP address of configuration server acquired on this interface.

<interface-acquired-hostname>—Hostname acquired on this interface.

<interface-acquired-hostname-source>—Source of hostname acquired on this interface.

<interface-name>—Interface name.

<interface-state>—State of interface state machine.

Summary of BFD Response Tags

This section lists the JUNOS XML tags that contain operational information about the Bidirectional Forwarding Detection (BFD) Protocol. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-bfd. To review the DTD for the tags, see "DTD for BFD Response Tags" on page 2049.

<bfd-client>

Usage

```
<bfd-session>
  <bfd-client>
    <client-name>client-name</client-name>
    <client-transmission-interval>client-transmission-interval
                </client-transmission-interval>
    <client-reception-interval>client-reception-interval
                </client-reception-interval>
    <client-multiplier>client-multiplier</client-multiplier>
    <client-holddown-interval>client-holddown-interval</client-holddown-interval>
    <client-state>client-state</client-state>
    <client-authentication>client-authentication</client-authentication>
    <client-keychain>client-keychain</client-keychain>
    <client-algorithm>client-algorithm</client-algorithm>
    <client-authentication-loose>client-authentication-loose
                </client-authentication-loose>
  </bfd-client>
</bfd-session>
```

Description Information about the clients.

Contents <client-algorithm>—Client requested algorithm.

<client-authentication>—Client requested authentication.

<client-authentication-loose>—Client requested mode.

<client-holddown-interval>—Hold interval for which BFD does not send a session UP notification to the client (seconds).

<client-keychain>—Client requested keychain name.

<client-multiplier>—Multiplier that the client has requested to determine theliveness of the BFD session.

<client-name>—Protocol for which the BFD session is active (forexample: OSPF, ISIS, Static, and so on) .

<client-reception-interval>—Base frequency that the client has proposed for peersto send BFD control packets (seconds).

<client-state>—Tells whether client is in holddown or not.

<client-transmission-interval>—Base frequency that the client proposes for sending BFDcontrol packets (seconds).

<bfd-replication>

Usage
```
<rpc-reply>
  <bfd-replication>
    <bfd-replication-session-entry>...</bfd-replication-session-entry>
  </bfd-replication>
</rpc-reply>
```

Description Information about bidirectional forwarding detection replication state.

Contents <bfd-replication-session-entry>—No documentation is available yet.

<bfd-replication-session-entry>

Usage
```
<bfd-replication>
  <bfd-replication-session-entry>
    <session-neighbor>session-neighbor</session-neighbor>
    <session-interface>session-interface</session-interface>
    <local-discriminator>local-discriminator</local-discriminator>
    <replication-state>replication-state</replication-state>
  </bfd-replication-session-entry>
</bfd-replication>
```

Description No documentation is available yet.

Contents <local-discriminator>—Authentication code used by the local system to identify theBFD session.

<replication-state>—Replication state.

<session-interface>—Name of the interface on which the BFD session is active.

<session-neighbor>—IP address of the neighbor for the BFD session.

<bfd-session>

Usage

```
<bfd-session-information>
  <bfd-session>
    <session-state>session-state</session-state>
    <session-interface>session-interface</session-interface>
    <session-neighbor>session-neighbor</session-neighbor>
    <session-detection-time>session-detection-time</session-detection-time>
    <session-transmission-interval>session-transmission-interval
            </session-transmission-interval>
    <session-adaptive-multiplier>session-adaptive-multiplier
            </session-adaptive-multiplier>
    <bfd-client>...</bfd-client>
    <session-up-time>session-up-time</session-up-time>
    <previous-up-time>previous-up-time</previous-up-time>
    <session-down-time>session-down-time</session-down-time>
    <previous-down-time>previous-down-time</previous-down-time>
    <local-diagnostic>local-diagnostic</local-diagnostic>
    <remote-diagnostic>remote-diagnostic</remote-diagnostic>
    <remote-state>remote-state</remote-state>
    <v0-remote-state>v0-remote-state</v0-remote-state>
    <remote-listen>remote-listen</remote-listen>
    <session-version>session-version</session-version>
    <logical-system-id>logical-system-id</logical-system-id>
    <route-table-index>route-table-index</route-table-index>
    <minimum-asynchronous-interval>minimum-asynchronous-interval
            </minimum-asynchronous-interval>
    <minimum-slow-interval>minimum-slow-interval</minimum-slow-interval>

<adaptive-asynchronous-transmission-interval>adaptive-asynchronous-transmission-inte
rval
            </adaptive-asynchronous-transmission-interval>
    <adaptive-reception-interval>adaptive-reception-interval
            </adaptive-reception-interval>
    <minimum-transmission-interval>minimum-transmission-interval
            </minimum-transmission-interval>
    <threshold-transmission-interval>threshold-transmission-interval
            </threshold-transmission-interval>
    <minimum-reception-interval>minimum-reception-interval
            </minimum-reception-interval>
    <detection-multiplier>detection-multiplier</detection-multiplier>
    <threshold-detection-time>threshold-detection-time</threshold-detection-time>
    <neighbor-minimum-transmission-interval>neighbor-minimum-transmission-interval
            </neighbor-minimum-transmission-interval>
    <neighbor-minimum-reception-interval>neighbor-minimum-reception-interval
            </neighbor-minimum-reception-interval>
    <neighbor-session-multiplier>neighbor-session-multiplier
            </neighbor-session-multiplier>
    <issu-state>issu-state</issu-state>
    <original-transmission-interval>original-transmission-interval
            </original-transmission-interval>
    <original-reception-interval>original-reception-interval
            </original-reception-interval>
    <local-discriminator>local-discriminator</local-discriminator>
```

```
        <remote-discriminator>remote-discriminator</remote-discriminator>
        <echo-mode-desired>echo-mode-desired</echo-mode-desired>
        <echo-mode-state>echo-mode-state</echo-mode-state>
        <no-absorb>no-absorb</no-absorb>
        <no-refresh>no-refresh</no-refresh>
        <update-adjacency>update-adjacency</update-adjacency>
        <update-transmit>update-transmit</update-transmit>
        <neighbor-fate>neighbor-fate</neighbor-fate>
        <replicated>replicated</replicated>
        <holddown-timer>holddown-timer</holddown-timer>
        <adaptation-disabled>adaptation-disabled</adaptation-disabled>
        <tunnel-name>tunnel-name</tunnel-name>
        <tunnel-path>tunnel-path</tunnel-path>
        <tunnel-prefix>tunnel-prefix</tunnel-prefix>
        <tunnel-prefix-length>tunnel-prefix-length</tunnel-prefix-length>
        <tunnel-type>tunnel-type</tunnel-type>
        <tunnel-destination>tunnel-destination</tunnel-destination>
        <multihop-time-to-live>multihop-time-to-live</multihop-time-to-live>
        <multihop>multihop</multihop>
        <multihop-routing-table-index>multihop-routing-table-index
                </multihop-routing-table-index>
        <multihop-local-address>multihop-local-address</multihop-local-address>
        <authentication>authentication</authentication>
        <session-keychain>session-keychain</session-keychain>
        <session-algorithm>session-algorithm</session-algorithm>
        <session-authentication-loose>session-authentication-loose
                </session-authentication-loose>
    </bfd-session>
</bfd-session-information>
```

Description Information about bidirectional forwarding detection session.

Contents <adaptation-disabled>—Indicates whether adaptation has been disabled.

<adaptive-asynchronous-transmission-interval>—Minimum asynchronous interval used when there is routeflapping.

<adaptive-reception-interval>—Adjusted value of minimum reception interval.

<authentication>—Authentication status.

<bfd-client>—Information about the clients.

<detection-multiplier>—Desired detect time multiplier for BFD control packets.It is multiplied by the negotiated control packet receptioninterval to determine the session detection time (time todetect whether the session is alive).

<echo-mode-desired>—Indicates whether the local system proposes that echotransmissions be enabled for the BFD session.

<echo-mode-state>—Indicates whether echo transmissions are enabled for theBFD session.

<holddown-timer>—Status of version negotiation.

<issu-state>—ISSU state of the session.

<local-diagnostic>—Information provided by the local host about BFD sessionsthat have failed (for example if the node is administrativelydown or a control timer has expired).

<local-discriminator>—Authentication code used by the local system to identify theBFD session.

<logical-system-id>—Logical system on which the session is established.

<minimum-asynchronous-interval>—Minimum amount of time that the local system proposes forthe delay between transmission of asynchronous control packetsacross the BFD session (seconds).

<minimum-reception-interval>—Minimum amount of time that the local system waits betweenchecks for newly received control packets (seconds).

<minimum-slow-interval>—Either one second or the minimum asynchronous interval,whichever is greater.

<minimum-transmission-interval>—Minimum amount of time that the local system proposes forthe delay between transmission of control packets across theBFD session (seconds). It is either the minimum slow interval orthe adaptive asynchronous transmission interval.

<multihop>—Multihop session.

<multihop-local-address>—Multihop local address.

<multihop-routing-table-index>—Multihop session index in the routing table .

<multihop-time-to-live>—Time-to-live for multihop session.

<neighbor-fate>—Indicates whether the remote system is control-planeindependent.

<neighbor-minimum-reception-interval>—Minimum amount of time that the remote system waits betweenchecks for newly received control packets (seconds).

<neighbor-minimum-transmission-interval>—Minimum amount of time that the remote system proposes forthe delay between transmission of control packets across the BFDsession (seconds).

<neighbor-session-multiplier>—Neighbor's detection multiplier.

<no-absorb>—Incoming packets are not absorbed.

<no-refresh>—The adjacency is not refreshed.

<original-reception-interval>—Original pre-ISSU reception interval.

<original-transmission-interval>—Original pre-ISSU transmission interval.

<previous-down-time>—Amount of time the previous session was

down(hours:minutes:seconds).

<previous-up-time>—Duration of the previous session (hours:minutes:seconds).

<remote-diagnostic>—Information provided by the remote host about BFD sessionsthat have failed (for example if the node is administrativelydown or a control timer has expired).

<remote-discriminator>—Authentication code used by the remote system to identify theBFD session.

<remote-listen>—(BFD version 0 only.) Indicates whether the remote system isreceiving control packets transmitted by the local system.

<remote-state>—(BFD version 1 only.) Indicates the remote session state.

<replicated>—Indicates whether the session is replicated between master andstandby RE.

<route-table-index>—Routing table index for the current logical system.

<session-adaptive-multiplier>—The adjusted value of detect multiplier.

<session-algorithm>—Session authentication algorithm.

<session-authentication-loose>—Session authentication mode.

<session-detection-time>—Time period within which the host must receive BFD controlpackets to continue considering the session active (seconds).

<session-down-time>—Time for which the current session was down(hours:minutes:seconds).

<session-interface>—Name of the interface on which the BFD session is active.

<session-keychain>—Authentication status.

<session-neighbor>—IP address of the neighbor for the BFD session.

<session-state>—BFD session state.

<session-transmission-interval>—Frequency at which the host system sends BFD controlpackets (seconds).

<session-up-time>—Time since the current session began (hours:minutes:seconds).

<session-version>—Version of the BFD protocol being used for the session.

<threshold-detection-time>—The maximum duration (in seconds) for the detection timebefore an SNMP trap is generated.

<threshold-transmission-interval>—The maximum duration (in seconds) for the transmissioninterval before an SNMP trap is generated.

<tunnel-destination>—Destination for the Label Distribution Protocol tunnel.

<tunnel-name>—Name of the BFD tunnel.

<tunnel-path>—Path of the BFD tunnel.

<tunnel-prefix>—Prefix for the Label Distribution Protocol tunnel.

<tunnel-prefix-length>—Length of prefix for the Label Distribution Protocol tunnel.

<tunnel-type>—Type of tunnel.

<update-adjacency>—Indicates whether the adjacency needs to be updated.

<update-transmit>—Indicates whether a transmission needs to be updated.

<v0-remote-state>—(BFD version 0 only.) Indicates whether the local system is receiving BFD control packets from the remote system.

<bfd-session-information>

Usage

```
<rpc-reply>
  <bfd-session-information>
    <bfd-session>...</bfd-session>
    <sessions>sessions</sessions>
    <clients>clients</clients>
    <cumulative-transmission-rate>cumulative-transmission-rate
                </cumulative-transmission-rate>
    <cumulative-reception-rate>cumulative-reception-rate
                </cumulative-reception-rate>
    <error-value>error-value</error-value>
  </bfd-session-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <bfd-session>—Information about bidirectional forwarding detection session.

<clients>—Total number of clients that are hosting BFD sessions.

<cumulative-reception-rate>—Number of BFD control packets received per second inall active sessions.

<cumulative-transmission-rate>—Number of BFD control packets transmitted per second inall active sessions.

<error-value>—Error code that is returned when a 'clear' operation (such asthe 'clear bfd session' command) fails.

<sessions>—Total number of active BFD sessions.

Summary of Connectivity Fault Management Response Tags

This section lists the JUNOS XML tags that contain operational information about connectivity fault management process. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-cfm. To review the DTD for the tags, see "DTD for Connectivity Fault Management Response Tags" on page 2053.

<cfm-counters-route-socket-operations>

Usage
```
<rpc-reply>
  <cfm-counters-route-socket-operations>
    <cfm-route-socket-message-counters>...</cfm-route-socket-message-counters>
  </cfm-counters-route-socket-operations>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-route-socket-message-counters>—No documentation is available yet.

<cfm-counters-route-socket-received>

Usage
```
<rpc-reply>
  <cfm-counters-route-socket-received>
    <cfm-route-socket-message-counters>...</cfm-route-socket-message-counters>
  </cfm-counters-route-socket-received>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-route-socket-message-counters>—No documentation is available yet.

<cfm-cross-connect-session>

Usage

```
<cfm-cross-connect-sessions>
  <cfm-cross-connect-session>
    <cfm-session-defect-type>cfm-session-defect-type</cfm-session-defect-type>
    <cfm-session-defect-description>cfm-session-defect-description
                </cfm-session-defect-description>
    <cfm-level>cfm-level</cfm-level>
    <cfm-maintenance-domain-name>cfm-maintenance-domain-name
                </cfm-maintenance-domain-name>
    <cfm-maintenance-domain-name-format>cfm-maintenance-domain-name-format
                </cfm-maintenance-domain-name-format>
    <cfm-maintenance-association-name>cfm-maintenance-association-name
                </cfm-maintenance-association-name>

<cfm-maintenance-association-name-format>cfm-maintenance-association-name-format
                </cfm-maintenance-association-name-format>
    <cfm-mep-identifier>cfm-mep-identifier</cfm-mep-identifier>
    <cfm-continuity-check-interval>cfm-continuity-check-interval
                </cfm-continuity-check-interval>
  </cfm-cross-connect-session>
</cfm-cross-connect-sessions>
```

Description No documentation is available yet.

Contents

<cfm-continuity-check-interval>—Continuity-check message interval.

<cfm-level>—Maintenance-domain level.

<cfm-maintenance-association-name>—Name of maintenance association.

<cfm-maintenance-association-name-format>—Format of maintenance association name.

<cfm-maintenance-domain-name>—Name of maintenance domain.

<cfm-maintenance-domain-name-format>—Format of maintenance domain name.

<cfm-mep-identifier>—Identifier of MEP.

<cfm-session-defect-description>—CCM session defect description.

<cfm-session-defect-type>—CCM session defect type.

<cfm-cross-connect-sessions>

Usage
```
<cfm-entry>
  <cfm-cross-connect-sessions>
    <cfm-cross-connect-session-count>cfm-cross-connect-session-count
                    </cfm-cross-connect-session-count>
    <cfm-cross-connect-session>...</cfm-cross-connect-session>
  </cfm-cross-connect-sessions>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-cross-connect-session>—No documentation is available yet.

<cfm-cross-connect-session-count>—Number of cross connect CCM sessions.

<cfm-delay-statistics>

Usage
```
<rpc-reply>
  <cfm-delay-statistics>
    <cfm-entry>...</cfm-entry>
  </cfm-delay-statistics>
</rpc-reply>
```

Description Information about ethernet delay statistics for one or more CFM sessions.

Contents <cfm-entry>—No documentation is available yet.

<cfm-dfwd-pending-transactions>

Usage
```
<cfmd-internal-state>
  <cfm-dfwd-pending-transactions>
    <cfm-dfwd-transaction>...</cfm-dfwd-transaction>
  </cfm-dfwd-pending-transactions>
</cfmd-internal-state>
```

Description No documentation is available yet.

Contents <cfm-dfwd-transaction>—No documentation is available yet.

<cfm-dfwd-transaction>

Usage

```
<cfm-dfwd-pending-transactions>
  <cfm-dfwd-transaction>
    <cfm-dfwd-transaction-id>cfm-dfwd-transaction-id</cfm-dfwd-transaction-id>
    <cfm-dfwd-nh-to-delete>cfm-dfwd-nh-to-delete</cfm-dfwd-nh-to-delete>
  </cfm-dfwd-transaction>
</cfm-dfwd-pending-transactions>
```

Description No documentation is available yet.

Contents <cfm-dfwd-nh-to-delete>—Nexhtops to delete for the transaction.

<cfm-dfwd-transaction-id>—Transaction id of transaction not yet acknowledged by firewall daemon.

<cfm-entry>

Usage

```
<cfm-interface | cfm-mep-database | cfm-mep-statistics | cfm-delay-statistics>
  <cfm-entry>
    <cfm-interface-entry>...</cfm-interface-entry>
    <cfm-interface-sessions>...</cfm-interface-sessions>
    <cfm-mep-database-session>...</cfm-mep-database-session>
    <cfm-mep-database-continuity-check>...</cfm-mep-database-continuity-check>
    <cfm-mep-database-interface>...</cfm-mep-database-interface>
    <cfm-local-mep>...</cfm-local-mep>
    <cfm-local-mep-defects>...</cfm-local-mep-defects>
    <cfm-local-mep-statistics>...</cfm-local-mep-statistics>
    <cfm-remote-meps>...</cfm-remote-meps>
    <cfm-cross-connect-sessions>...</cfm-cross-connect-sessions>
    <cfm-error-sessions>...</cfm-error-sessions>
    <cfm-mep-statistics-mep-summary>...</cfm-mep-statistics-mep-summary>
    <cfm-local-mep-packet-statistics>...</cfm-local-mep-packet-statistics>
    <cfm-remote-mep-brief-summary>...</cfm-remote-mep-brief-summary>
    <cfm-ethdm-delay-entry>...</cfm-ethdm-delay-entry>
    <cfm-ethdm-oneway-delay-summary>...</cfm-ethdm-oneway-delay-summary>
    <cfm-ethdm-twoway-delay-summary>...</cfm-ethdm-twoway-delay-summary>
  </cfm-entry>
</cfm-interface | cfm-mep-database | cfm-mep-statistics | cfm-delay-statistics>
```

Description No documentation is available yet.

Contents

<cfm-cross-connect-sessions>—No documentation is available yet.

<cfm-error-sessions>—No documentation is available yet.

<cfm-ethdm-delay-entry>—No documentation is available yet.

<cfm-ethdm-oneway-delay-summary>—No documentation is available yet.

<cfm-ethdm-twoway-delay-summary>—No documentation is available yet.

<cfm-interface-entry>—No documentation is available yet.

<cfm-interface-sessions>—No documentation is available yet.

<cfm-local-mep>—No documentation is available yet.

<cfm-local-mep-defects>—No documentation is available yet.

<cfm-local-mep-packet-statistics>—No documentation is available yet.

<cfm-local-mep-statistics>—No documentation is available yet.

<cfm-mep-database-continuity-check>—No documentation is available yet.

<cfm-mep-database-interface>—No documentation is available yet.

<cfm-mep-database-session>—No documentation is available yet.

<cfm-mep-statistics-mep-summary>—No documentation is available yet.

<cfm-remote-mep-brief-summary>—No documentation is available yet.

<cfm-remote-meps>—No documentation is available yet.

<cfm-error-session>

Usage

```
<cfm-error-sessions>
  <cfm-error-session>
    <cfm-session-defect-type>cfm-session-defect-type</cfm-session-defect-type>
    <cfm-session-defect-description>cfm-session-defect-description
                </cfm-session-defect-description>
    <cfm-level>cfm-level</cfm-level>
    <cfm-maintenance-domain-name>cfm-maintenance-domain-name
                </cfm-maintenance-domain-name>
    <cfm-maintenance-domain-name-format>cfm-maintenance-domain-name-format
                </cfm-maintenance-domain-name-format>
    <cfm-maintenance-association-name>cfm-maintenance-association-name
                </cfm-maintenance-association-name>

<cfm-maintenance-association-name-format>cfm-maintenance-association-name-format
                </cfm-maintenance-association-name-format>
    <cfm-continuity-check-interval>cfm-continuity-check-interval
                </cfm-continuity-check-interval>
    <cfm-mep-identifier>cfm-mep-identifier</cfm-mep-identifier>
  </cfm-error-session>
</cfm-error-sessions>
```

Description No documentation is available yet.

Contents <cfm-continuity-check-interval>—Continuity-check message interval.

<cfm-level>—Maintenance-domain level.

<cfm-maintenance-association-name>—Name of maintenance association.

<cfm-maintenance-association-name-format>—Format of maintenance association name.

<cfm-maintenance-domain-name>—Name of maintenance domain.

<cfm-maintenance-domain-name-format>—Format of maintenance domain name.

<cfm-mep-identifier>—Identifier of MEP.

<cfm-session-defect-description>—CCM session defect description.

<cfm-session-defect-type>—CCM session defect type.

<cfm-error-sessions>

Usage
```
<cfm-entry>
  <cfm-error-sessions>
    <cfm-error-session-count>cfm-error-session-count</cfm-error-session-count>
    <cfm-error-session>...</cfm-error-session>
  </cfm-error-sessions>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-error-session>—No documentation is available yet.

<cfm-error-session-count>—Number of error CCM sessions.

<cfm-ethdm-delay-entry>

Usage
```
<cfm-entry>
  <cfm-ethdm-delay-entry>
    <cfm-ethdm-delay-entry-index>cfm-ethdm-delay-entry-index
                  </cfm-ethdm-delay-entry-index>
    <cfm-ethdm-oneway-delay>cfm-ethdm-oneway-delay</cfm-ethdm-oneway-delay>
    <cfm-ethdm-twoway-delay>cfm-ethdm-twoway-delay</cfm-ethdm-twoway-delay>
  </cfm-ethdm-delay-entry>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-ethdm-delay-entry-index>—Delay entry index.

<cfm-ethdm-oneway-delay>—One-way delay measured using ETH-DM.

<cfm-ethdm-twoway-delay>—Two-way delay measured using ETH-DM.

<cfm-ethdm-oneway-delay-summary>

Usage

```
<cfm-entry>
  <cfm-ethdm-oneway-delay-summary>
    <cfm-ethdm-average-oneway-delay>cfm-ethdm-average-oneway-delay
                </cfm-ethdm-average-oneway-delay>

    <cfm-ethdm-average-oneway-delay-variation>cfm-ethdm-average-oneway-delay-variation
                </cfm-ethdm-average-oneway-delay-variation>
    <cfm-ethdm-bestcase-oneway-delay>cfm-ethdm-bestcase-oneway-delay
                </cfm-ethdm-bestcase-oneway-delay>
    <cfm-ethdm-worstcase-oneway-delay>cfm-ethdm-worstcase-oneway-delay
                </cfm-ethdm-worstcase-oneway-delay>
  </cfm-ethdm-oneway-delay-summary>
</cfm-entry>
```

Description No documentation is available yet.

Contents

<cfm-ethdm-average-oneway-delay>—Average one-way delay measured using ETH-DM.

<cfm-ethdm-average-oneway-delay-variation>—Average variation of one-way delay between two samples of measurement.

<cfm-ethdm-bestcase-oneway-delay>—Bestcase one-way delay measured using ETH-DM.

<cfm-ethdm-worstcase-oneway-delay>—Worstcase one-way delay measured using ETH-DM.

<cfm-ethdm-twoway-delay-summary>

Usage

```
<cfm-entry>
  <cfm-ethdm-twoway-delay-summary>
    <cfm-ethdm-average-twoway-delay>cfm-ethdm-average-twoway-delay
                </cfm-ethdm-average-twoway-delay>

    <cfm-ethdm-average-twoway-delay-variation>cfm-ethdm-average-twoway-delay-variation
                </cfm-ethdm-average-twoway-delay-variation>
    <cfm-ethdm-bestcase-twoway-delay>cfm-ethdm-bestcase-twoway-delay
                </cfm-ethdm-bestcase-twoway-delay>
    <cfm-ethdm-worstcase-twoway-delay>cfm-ethdm-worstcase-twoway-delay
                </cfm-ethdm-worstcase-twoway-delay>
  </cfm-ethdm-twoway-delay-summary>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-ethdm-average-twoway-delay>—Average two-way delay measured using ETH-DM.

<cfm-ethdm-average-twoway-delay-variation>—Average variation of two-way delay between two samples of measurement.

<cfm-ethdm-bestcase-twoway-delay>—Bestcase two-way delay measured using ETH-DM.

<cfm-ethdm-worstcase-twoway-delay>—Worstcase two-way delay measured using ETH-DM.

<cfm-filter>

Usage

```
<cfm-firewall-filter-instance-information | cfm-firewall-filter-interface-information>
  <cfm-filter>
    <cfm-filter-name>cfm-filter-name</cfm-filter-name>
    <cfm-filter-state>cfm-filter-state</cfm-filter-state>
    <cfm-filter-term-count>cfm-filter-term-count</cfm-filter-term-count>
    <cfm-filter-term-attachment>cfm-filter-term-attachment
                </cfm-filter-term-attachment>
  </cfm-filter>
</cfm-firewall-filter-instance-information | cfm-firewall-filter-interface-information>
```

Description No documentation is available yet.

Contents <cfm-filter-name>—No documentation is available yet.

<cfm-filter-state>—No documentation is available yet.

<cfm-filter-term-attachment>—No documentation is available yet.

<cfm-filter-term-count>—No documentation is available yet.

<cfm-filter-term>

Usage

```
<cfm-firewall-filter-instance-information | cfm-firewall-filter-interface-information>
  <cfm-filter-term>
    <cfm-filter-term-name>cfm-filter-term-name</cfm-filter-term-name>
    <cfm-filter-term-id>cfm-filter-term-id</cfm-filter-term-id>
    <cfm-filter-term-state>cfm-filter-term-state</cfm-filter-term-state>
    <cfm-filter-term-key>cfm-filter-term-key</cfm-filter-term-key>
    <cfm-filter-term-action>cfm-filter-term-action</cfm-filter-term-action>
    <cfm-filter-term-action-details>cfm-filter-term-action-details
                    </cfm-filter-term-action-details>
    <cfm-flood-nexthop-components>...</cfm-flood-nexthop-components>
  </cfm-filter-term>
</cfm-firewall-filter-instance-information | cfm-firewall-filter-interface-information>
```

Description No documentation is available yet.

Contents <cfm-filter-term-action>—No documentation is available yet.

<cfm-filter-term-action-details>—No documentation is available yet.

<cfm-filter-term-id>—No documentation is available yet.

<cfm-filter-term-key>—No documentation is available yet.

<cfm-filter-term-name>—No documentation is available yet.

<cfm-filter-term-state>—No documentation is available yet.

<cfm-flood-nexthop-components>—No documentation is available yet.

<cfm-firewall-filter-instance-information>

Usage

```
<rpc-reply>
  <cfm-firewall-filter-instance-information>
    <cfm-instance-name>cfm-instance-name</cfm-instance-name>
    <cfm-filter>...</cfm-filter>
    <cfm-filter-term>...</cfm-filter-term>
  </cfm-firewall-filter-instance-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-filter>—No documentation is available yet.

<cfm-filter-term>—No documentation is available yet.

<cfm-instance-name>—Forwarding instance.

<cfm-firewall-filter-interface-information>

Usage

```
<rpc-reply>
  <cfm-firewall-filter-interface-information>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-instance-name>cfm-instance-name</cfm-instance-name>
    <cfm-filter>...</cfm-filter>
    <cfm-filter-term>...</cfm-filter-term>
  </cfm-firewall-filter-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-filter>—No documentation is available yet.

<cfm-filter-term>—No documentation is available yet.

<cfm-instance-name>—Forwarding instance.

<cfm-interface-name>—Name of interface.

<cfm-flood-instance-information>

Usage

```
<rpc-reply>
  <cfm-flood-instance-information>
    <cfm-instance-name>cfm-instance-name</cfm-instance-name>
    <cfm-num-active-customer-endpoint-iffs>cfm-num-active-customer-endpoint-iffs
            </cfm-num-active-customer-endpoint-iffs>
    <cfm-num-active-vpn-endpoint-iffs>cfm-num-active-vpn-endpoint-iffs
            </cfm-num-active-vpn-endpoint-iffs>
    <cfm-flood-maintenance-domain-level>...</cfm-flood-maintenance-domain-level>
  </cfm-flood-instance-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-flood-maintenance-domain-level>—No documentation is available yet.

<cfm-instance-name>—Forwarding instance.

<cfm-num-active-customer-endpoint-iffs>—Number of customer endpoints (or customer-facing) ports.

<cfm-num-active-vpn-endpoint-iffs>—Number of VPN endpoints (or pseudowire/core-facing) ports.

<cfm-flood-interface-information>

Usage

```
<rpc-reply>
  <cfm-flood-interface-information>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-instance-name>cfm-instance-name</cfm-instance-name>
    <cfm-flood-maintenance-domain-level>...</cfm-flood-maintenance-domain-level>
  </cfm-flood-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-flood-maintenance-domain-level>—No documentation is available yet.

<cfm-instance-name>—Forwarding instance.

<cfm-interface-name>—Name of interface.

<cfm-flood-maintenance-domain-level>

Usage

```
<cfm-flood-instance-information | cfm-flood-interface-information>
  <cfm-flood-maintenance-domain-level>
    <cfm-level>cfm-level</cfm-level>
    <cfm-local-mep-direction>cfm-local-mep-direction</cfm-local-mep-direction>
    <cfm-filter-action>cfm-filter-action</cfm-filter-action>
    <cfm-nexthop-type>cfm-nexthop-type</cfm-nexthop-type>
    <cfm-nexthop-index>cfm-nexthop-index</cfm-nexthop-index>
    <cfm-flood-nexthop-components>...</cfm-flood-nexthop-components>
  </cfm-flood-maintenance-domain-level>
</cfm-flood-instance-information | cfm-flood-interface-information>
```

Description No documentation is available yet.

Contents <cfm-filter-action>—Action taken on receiving a CFM protocol packet.

<cfm-flood-nexthop-components>—No documentation is available yet.

<cfm-level>—Maintenance-domain level.

<cfm-local-mep-direction>—Direction in which continuity-check messages are sent.

<cfm-nexthop-index>—No documentation is available yet.

<cfm-nexthop-type>—No documentation is available yet.

<cfm-flood-nexthop-components>

Usage

```
<cfm-flood-maintenance-domain-level | cfm-route-maintenance-domain-level |
cfm-filter-term | cfm-nexthop-information | cfm-route-information>
  <cfm-flood-nexthop-components>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-interface-type>cfm-interface-type</cfm-interface-type>
    <cfm-interface-nexthop-type>cfm-interface-nexthop-type
                </cfm-interface-nexthop-type>
    <cfm-interface-nexthop-index>cfm-interface-nexthop-index
                </cfm-interface-nexthop-index>
  </cfm-flood-nexthop-components>
</cfm-flood-maintenance-domain-level | cfm-route-maintenance-domain-level |
cfm-filter-term | cfm-nexthop-information | cfm-route-information>
```

Description No documentation is available yet.

Contents <cfm-interface-name>—Name of interface.

<cfm-interface-nexthop-index>—No documentation is available yet.

<cfm-interface-nexthop-type>—No documentation is available yet.

<cfm-interface-type>—No documentation is available yet.

<cfm-instance-mip-information>

Usage

```
<cfm-mip-information>
  <cfm-instance-mip-information>
    <cfm-instance-name>cfm-instance-name</cfm-instance-name>
    <cfm-maintenance-domain-mhf>cfm-maintenance-domain-mhf
                </cfm-maintenance-domain-mhf>
    <cfm-maintenance-association-mhf>cfm-maintenance-association-mhf
                </cfm-maintenance-association-mhf>
    <cfm-default-maintenance-domain-mhf>cfm-default-maintenance-domain-mhf
                </cfm-default-maintenance-domain-mhf>
    <cfm-interface-mip-information>...</cfm-interface-mip-information>
  </cfm-instance-mip-information>
</cfm-mip-information>
```

Description No documentation is available yet.

Contents <cfm-default-maintenance-domain-mhf>—Default maintenance domain mip half function value for bridge-domain.

<cfm-instance-name>—Forwarding instance.

<cfm-interface-mip-information>—No documentation is available yet.

<cfm-maintenance-association-mhf>—Maintenance association mip half function value for bridge-domain.

<cfm-maintenance-domain-mhf>—Maintenance domain mip half function value for bridge-domain.

<cfm-interface>

Usage

```
<rpc-reply>
  <cfm-interface>
    <cfm-interface-snapshot>...</cfm-interface-snapshot>
    <cfm-entry>...</cfm-entry>
  </cfm-interface>
</rpc-reply>
```

Description Information about connectivity fault management for one or more interfaces.

Contents <cfm-entry>—No documentation is available yet.

<cfm-interface-snapshot>—No documentation is available yet.

<cfm-interface-continuity-check>

Usage

```
<cfm-interface-session>
  <cfm-interface-continuity-check>
    <cfm-continuity-check-status>cfm-continuity-check-status
                </cfm-continuity-check-status>
    <cfm-continuity-check-interval>cfm-continuity-check-interval
                </cfm-continuity-check-interval>
    <cfm-continuity-check-loss-threshold>cfm-continuity-check-loss-threshold
                </cfm-continuity-check-loss-threshold>
  </cfm-interface-continuity-check>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents <cfm-continuity-check-interval>—Continuity-check message interval.

<cfm-continuity-check-loss-threshold>—Maximum number of continuity-check messages that the endpoint can fail to acknowledge before it is marked as inoperative.

<cfm-continuity-check-status>—Continuity-check protocol status.

<cfm-interface-entry>

Usage

```
<cfm-entry>
  <cfm-interface-entry>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-interface-status>cfm-interface-status</cfm-interface-status>
    <cfm-interface-link-status>cfm-interface-link-status
                </cfm-interface-link-status>
  </cfm-interface-entry>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-interface-link-status>—Operational status of this interface.

<cfm-interface-name>—Name of interface.

<cfm-interface-status>—Status of 802.1ag on the interface.

<cfm-interface-local-mep-defects>

Usage

```
<cfm-interface-session>
  <cfm-interface-local-mep-defects>
    <cfm-defect-remote-mep-no-ccm>cfm-defect-remote-mep-no-ccm
                </cfm-defect-remote-mep-no-ccm>
    <cfm-defect-error-ccm>cfm-defect-error-ccm</cfm-defect-error-ccm>
    <cfm-defect-cross-connect-ccm>cfm-defect-cross-connect-ccm
                </cfm-defect-cross-connect-ccm>
    <cfm-defect-rdi-in-some-mep>cfm-defect-rdi-in-some-mep
                </cfm-defect-rdi-in-some-mep>
    <cfm-defect-mac-status>cfm-defect-mac-status</cfm-defect-mac-status>
  </cfm-interface-local-mep-defects>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents <cfm-defect-cross-connect-ccm>—Indicates whether cross-connect continuity-check messages (CCMs) were received.

<cfm-defect-error-ccm>—Indicates whether erroneous continuity-check messages (CCMs) were received.

<cfm-defect-mac-status>—Indicates whether any remote MEP's associated MAC is reporting an error status via the Port Status or Interface Status TLVs.

<cfm-defect-rdi-in-some-mep>—Indicates whether any remote MEPs are sending continuity-check messages (CCMs) with the RDI bit set.

<cfm-defect-remote-mep-no-ccm>—Indicates whether remote MEPs are receiving continuity-check messages (CCMs).

<cfm-interface-local-mep-info>

Usage

```
<cfm-interface-session>
  <cfm-interface-local-mep-info>
    <cfm-local-mep-identifier>cfm-local-mep-identifier</cfm-local-mep-identifier>
    <cfm-local-mep-direction>cfm-local-mep-direction</cfm-local-mep-direction>
    <cfm-local-mep-mac-address>cfm-local-mep-mac-address
                </cfm-local-mep-mac-address>
    <cfm-local-mep-status>cfm-local-mep-status</cfm-local-mep-status>
  </cfm-interface-local-mep-info>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents <cfm-local-mep-direction>—Direction in which continuity-check messages are sent.

<cfm-local-mep-identifier>—Identifier of local MEP.

<cfm-local-mep-mac-address>—MAC address of local MEP.

<cfm-local-mep-status>—Status of maintenance association endpoint.

<cfm-interface-local-mep-statistics>

Usage

```
<cfm-interface-session>
  <cfm-interface-local-mep-statistics>
    <cfm-total-ccm-sent>cfm-total-ccm-sent</cfm-total-ccm-sent>
    <cfm-out-of-sequence-ccm-received>cfm-out-of-sequence-ccm-received
            </cfm-out-of-sequence-ccm-received>
    <cfm-lbm-sent>cfm-lbm-sent</cfm-lbm-sent>
    <cfm-lbr-sent>cfm-lbr-sent</cfm-lbr-sent>
    <cfm-lbr-received>cfm-lbr-received</cfm-lbr-received>
    <cfm-lbr-received-out-of-order>cfm-lbr-received-out-of-order
            </cfm-lbr-received-out-of-order>
    <cfm-lbr-bad-msdu>cfm-lbr-bad-msdu</cfm-lbr-bad-msdu>
    <cfm-total-ltm-sent>cfm-total-ltm-sent</cfm-total-ltm-sent>
    <cfm-total-ltm-received>cfm-total-ltm-received</cfm-total-ltm-received>
    <cfm-total-ltr-sent>cfm-total-ltr-sent</cfm-total-ltr-sent>
    <cfm-total-ltr-received>cfm-total-ltr-received</cfm-total-ltr-received>
    <cfm-next-ltm-sequence-number>cfm-next-ltm-sequence-number
            </cfm-next-ltm-sequence-number>
    <cfm-onedm-sent>cfm-onedm-sent</cfm-onedm-sent>
    <cfm-onedm-received>cfm-onedm-received</cfm-onedm-received>
    <cfm-onedm-received-invalid>cfm-onedm-received-invalid
            </cfm-onedm-received-invalid>
    <cfm-onedm-received-outofsync>cfm-onedm-received-outofsync
            </cfm-onedm-received-outofsync>
    <cfm-dmm-sent>cfm-dmm-sent</cfm-dmm-sent>
    <cfm-dmm-received>cfm-dmm-received</cfm-dmm-received>
    <cfm-dmm-received-invalid>cfm-dmm-received-invalid</cfm-dmm-received-invalid>
    <cfm-dmr-sent>cfm-dmr-sent</cfm-dmr-sent>
    <cfm-dmr-received>cfm-dmr-received</cfm-dmr-received>
    <cfm-dmr-received-invalid>cfm-dmr-received-invalid</cfm-dmr-received-invalid>
  </cfm-interface-local-mep-statistics>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents

<cfm-dmm-received>—Number of valid two-way delay measurement request packets received.

<cfm-dmm-received-invalid>—Number of invalid two-way delay measurement request packets received.

<cfm-dmm-sent>—Number of two-way delay measurement request packets sent.

<cfm-dmr-received>—Number of valid two-way delay measurement response packets received.

<cfm-dmr-received-invalid>—Number of invalid two-way delay measurement response packets received.

<cfm-dmr-sent>—Number of two-way delay measurement response packets sent.

<cfm-lbm-sent>—Number of loopback messages sent.

<cfm-lbr-bad-msdu>—Number of loopback responses received with corrupted data.

<cfm-lbr-received>—Number of valid in-order loopback responses received.

<cfm-lbr-received-out-of-order>—Number of valid out-of-order loopback responses received.

<cfm-lbr-sent>—Number of loopback responses sent.

<cfm-next-ltm-sequence-number>—Sequence Number of the next LTM request.

<cfm-onedm-received>—Number of valid one-way delay measurement request packets received.

<cfm-onedm-received-invalid>—Number of invalid one-way delay measurement request packets received.

<cfm-onedm-received-outofsync>—Number of out of sync one-way delay measurement request packets received.

<cfm-onedm-sent>—Number of one-way delay measurement request packets sent.

<cfm-out-of-sequence-ccm-received>—Number of continuity-check messages received out of sequence.

<cfm-total-ccm-sent>—Number of continuity-check messages sent.

<cfm-total-ltm-received>—Number of linktrace-request messages received.

<cfm-total-ltm-sent>—Number of linktrace-request messages sent.

<cfm-total-ltr-received>—Number of linktrace-response messages received.

<cfm-total-ltr-sent>—Number of linktrace-response messages sent.

<cfm-interface-local-mep-tlv-info>

Usage

```
<cfm-interface-session>
  <cfm-interface-local-mep-tlv-info>
    <cfm-local-mep-interface-status-tlv>cfm-local-mep-interface-status-tlv
                </cfm-local-mep-interface-status-tlv>
    <cfm-local-mep-port-status-tlv>cfm-local-mep-port-status-tlv
                </cfm-local-mep-port-status-tlv>
  </cfm-interface-local-mep-tlv-info>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents <cfm-local-mep-interface-status-tlv>—Interface status TLV information in the last transmitted CCM from local MEP.

<cfm-local-mep-port-status-tlv>—Port status TLV information in the last transmitted CCM from local MEP.

<cfm-interface-mip-information>

Usage

```
<cfm-instance-mip-information>
  <cfm-interface-mip-information>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-level>cfm-level</cfm-level>
  </cfm-interface-mip-information>
</cfm-instance-mip-information>
```

Description No documentation is available yet.

Contents <cfm-interface-name>—Name of interface.

<cfm-level>—Maintenance-domain level.

<cfm-interface-remote-meps>

Usage

```
<cfm-interface-session>
  <cfm-interface-remote-meps>
    <cfm-remote-mep-count>cfm-remote-mep-count</cfm-remote-mep-count>
    <cfm-remote-mep>...</cfm-remote-mep>
  </cfm-interface-remote-meps>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents <cfm-remote-mep>—No documentation is available yet.

<cfm-remote-mep-count>—Number of remote MEP configured or learnt.

<cfm-interface-session>

Usage

```
<cfm-interface-sessions>
  <cfm-interface-session>
    <cfm-interface-session-identifier>...</cfm-interface-session-identifier>
    <cfm-interface-continuity-check>...</cfm-interface-continuity-check>
    <cfm-interface-local-mep-tlv-info>...</cfm-interface-local-mep-tlv-info>
    <cfm-interface-local-mep-info>...</cfm-interface-local-mep-info>
    <cfm-interface-local-mep-defects>...</cfm-interface-local-mep-defects>
    <cfm-interface-local-mep-statistics>...</cfm-interface-local-mep-statistics>
    <cfm-interface-remote-meps>...</cfm-interface-remote-meps>
  </cfm-interface-session>
</cfm-interface-sessions>
```

Description No documentation is available yet.

Contents <cfm-interface-continuity-check>—No documentation is available yet.

<cfm-interface-local-mep-defects>—No documentation is available yet.

<cfm-interface-local-mep-info>—No documentation is available yet.

<cfm-interface-local-mep-statistics>—No documentation is available yet.

<cfm-interface-local-mep-tlv-info>—No documentation is available yet.

<cfm-interface-remote-meps>—No documentation is available yet.

<cfm-interface-session-identifier>—No documentation is available yet.

<cfm-interface-session-identifier>

Usage

```
<cfm-interface-session>
  <cfm-interface-session-identifier>
    <cfm-level>cfm-level</cfm-level>
    <cfm-maintenance-domain-name>cfm-maintenance-domain-name
                </cfm-maintenance-domain-name>
    <cfm-maintenance-domain-name-format>cfm-maintenance-domain-name-format
                </cfm-maintenance-domain-name-format>
    <cfm-maintenance-association-name>cfm-maintenance-association-name
                </cfm-maintenance-association-name>

<cfm-maintenance-association-name-format>cfm-maintenance-association-name-format
                </cfm-maintenance-association-name-format>
  </cfm-interface-session-identifier>
</cfm-interface-session>
```

Description No documentation is available yet.

Contents <cfm-level>—Maintenance-domain level.

<cfm-maintenance-association-name>—Name of maintenance association.

<cfm-maintenance-association-name-format>—Format of maintenance association name.

<cfm-maintenance-domain-name>—Name of maintenance domain.

<cfm-maintenance-domain-name-format>—Format of maintenance domain name.

<cfm-interface-session-snapshot>

Usage

```
<cfm-interface-snapshot>
  <cfm-interface-session-snapshot>
    <cfm-level>cfm-level</cfm-level>
    <cfm-mep-identifier>cfm-mep-identifier</cfm-mep-identifier>
    <cfm-remote-mep-count>cfm-remote-mep-count</cfm-remote-mep-count>
  </cfm-interface-session-snapshot>
</cfm-interface-snapshot>
```

Description No documentation is available yet.

Contents <cfm-level>—Maintenance-domain level.

<cfm-mep-identifier>—Identifier of MEP.

<cfm-remote-mep-count>—Number of remote MEP configured or learnt.

<cfm-interface-sessions>

Usage

```
<cfm-entry>
  <cfm-interface-sessions>
    <cfm-interface-session>...</cfm-interface-session>
  </cfm-interface-sessions>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-interface-session>—No documentation is available yet.

<cfm-interface-snapshot>

Usage

```
<cfm-interface>
  <cfm-interface-snapshot>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-interface-link-status>cfm-interface-link-status
                    </cfm-interface-link-status>
    <cfm-interface-status>cfm-interface-status</cfm-interface-status>
    <cfm-interface-session-snapshot>...</cfm-interface-session-snapshot>
  </cfm-interface-snapshot>
</cfm-interface>
```

Description No documentation is available yet.

Contents <cfm-interface-link-status>—Operational status of this interface.

<cfm-interface-name>—Name of interface.

<cfm-interface-session-snapshot>—No documentation is available yet.

<cfm-interface-status>—Status of 802.1ag on the interface.

<cfm-linktrace-path-database>

Usage

```
<rpc-reply>
  <cfm-linktrace-path-database>
    <cfm-ltm-request-snapshot>...</cfm-ltm-request-snapshot>
    <cfm-ltr-reply-entry>...</cfm-ltr-reply-entry>
  </cfm-linktrace-path-database>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-ltm-request-snapshot>—No documentation is available yet.

<cfm-ltr-reply-entry>—No documentation is available yet.

<cfm-local-mep>

Usage

```
<cfm-entry>
  <cfm-local-mep>
    <cfm-local-mep-identifier>cfm-local-mep-identifier</cfm-local-mep-identifier>
    <cfm-local-mep-direction>cfm-local-mep-direction</cfm-local-mep-direction>
    <cfm-local-mep-mac-address>cfm-local-mep-mac-address
                </cfm-local-mep-mac-address>
    <cfm-local-mep-auto-discovery>cfm-local-mep-auto-discovery
                </cfm-local-mep-auto-discovery>
    <cfm-local-mep-priority>cfm-local-mep-priority</cfm-local-mep-priority>
    <cfm-local-mep-port-status-tlv>cfm-local-mep-port-status-tlv
                </cfm-local-mep-port-status-tlv>
    <cfm-local-mep-interface-status-tlv>cfm-local-mep-interface-status-tlv
                </cfm-local-mep-interface-status-tlv>
    <cfm-local-mep-status>cfm-local-mep-status</cfm-local-mep-status>
  </cfm-local-mep>
</cfm-entry>
```

Description No documentation is available yet.

Contents

<cfm-local-mep-auto-discovery>—Indicates whether auto-discovery of remote MEPs are enabled.

<cfm-local-mep-direction>—Direction in which continuity-check messages are sent.

<cfm-local-mep-identifier>—Identifier of local MEP.

<cfm-local-mep-interface-status-tlv>—Interface status TLV information in the last transmitted CCM from local MEP.

<cfm-local-mep-mac-address>—MAC address of local MEP.

<cfm-local-mep-port-status-tlv>—Port status TLV information in the last transmitted CCM from local MEP.

<cfm-local-mep-priority>—VLAN priority used in the continuity-check and link-trace messages.

<cfm-local-mep-status>—Status of maintenance association endpoint.

<cfm-local-mep-defects>

Usage

```
<cfm-entry>
  <cfm-local-mep-defects>
    <cfm-defect-remote-mep-no-ccm>cfm-defect-remote-mep-no-ccm
                </cfm-defect-remote-mep-no-ccm>
    <cfm-defect-error-ccm>cfm-defect-error-ccm</cfm-defect-error-ccm>
    <cfm-defect-cross-connect-ccm>cfm-defect-cross-connect-ccm
                </cfm-defect-cross-connect-ccm>
    <cfm-defect-rdi-in-some-mep>cfm-defect-rdi-in-some-mep
                </cfm-defect-rdi-in-some-mep>
    <cfm-defect-mac-status>cfm-defect-mac-status</cfm-defect-mac-status>
  </cfm-local-mep-defects>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-defect-cross-connect-ccm>—Indicates whether cross-connect continuity-check messages (CCMs) were received.

<cfm-defect-error-ccm>—Indicates whether erroneous continuity-check messages (CCMs) were received.

<cfm-defect-mac-status>—Indicates whether any remote MEP's associated MAC is reporting an error status via the Port Status or Interface Status TLVs.

<cfm-defect-rdi-in-some-mep>—Indicates whether any remote MEPs are sending continuity-check messages (CCMs) with the RDI bit set.

<cfm-defect-remote-mep-no-ccm>—Indicates whether remote MEPs are receiving continuity-check messages (CCMs).

<cfm-local-mep-packet-statistics>

Usage

```
<cfm-entry>
  <cfm-local-mep-packet-statistics>
    <cfm-total-ccm-sent>cfm-total-ccm-sent</cfm-total-ccm-sent>
    <cfm-out-of-sequence-ccm-received>cfm-out-of-sequence-ccm-received
            </cfm-out-of-sequence-ccm-received>
    <cfm-lbm-sent>cfm-lbm-sent</cfm-lbm-sent>
    <cfm-lbr-sent>cfm-lbr-sent</cfm-lbr-sent>
    <cfm-lbr-received>cfm-lbr-received</cfm-lbr-received>
    <cfm-lbr-received-out-of-order>cfm-lbr-received-out-of-order
            </cfm-lbr-received-out-of-order>
    <cfm-lbr-bad-msdu>cfm-lbr-bad-msdu</cfm-lbr-bad-msdu>
    <cfm-total-ltm-sent>cfm-total-ltm-sent</cfm-total-ltm-sent>
    <cfm-total-ltm-received>cfm-total-ltm-received</cfm-total-ltm-received>
    <cfm-total-ltr-sent>cfm-total-ltr-sent</cfm-total-ltr-sent>
    <cfm-total-ltr-received>cfm-total-ltr-received</cfm-total-ltr-received>
    <cfm-next-ltm-sequence-number>cfm-next-ltm-sequence-number
            </cfm-next-ltm-sequence-number>
    <cfm-onedm-sent>cfm-onedm-sent</cfm-onedm-sent>
    <cfm-onedm-received>cfm-onedm-received</cfm-onedm-received>
    <cfm-onedm-received-invalid>cfm-onedm-received-invalid
            </cfm-onedm-received-invalid>
    <cfm-onedm-received-outofsync>cfm-onedm-received-outofsync
            </cfm-onedm-received-outofsync>
    <cfm-dmm-sent>cfm-dmm-sent</cfm-dmm-sent>
    <cfm-dmm-received>cfm-dmm-received</cfm-dmm-received>
    <cfm-dmm-received-invalid>cfm-dmm-received-invalid</cfm-dmm-received-invalid>
    <cfm-dmr-sent>cfm-dmr-sent</cfm-dmr-sent>
    <cfm-dmr-received>cfm-dmr-received</cfm-dmr-received>
    <cfm-dmr-received-invalid>cfm-dmr-received-invalid</cfm-dmr-received-invalid>
  </cfm-local-mep-packet-statistics>
</cfm-entry>
```

Description No documentation is available yet.

Contents

<cfm-dmm-received>—Number of valid two-way delay measurement request packets received.

<cfm-dmm-received-invalid>—Number of invalid two-way delay measurement request packets received.

<cfm-dmm-sent>—Number of two-way delay measurement request packets sent.

<cfm-dmr-received>—Number of valid two-way delay measurement response packets received.

<cfm-dmr-received-invalid>—Number of invalid two-way delay measurement response packets received.

<cfm-dmr-sent>—Number of two-way delay measurement response packets sent.

<cfm-lbm-sent>—Number of loopback messages sent.

<cfm-lbr-bad-msdu>—Number of loopback responses received with corrupted data.

<cfm-lbr-received>—Number of valid in-order loopback responses received.

<cfm-lbr-received-out-of-order>—Number of valid out-of-order loopback responses received.

<cfm-lbr-sent>—Number of loopback responses sent.

<cfm-next-ltm-sequence-number>—Sequence Number of the next LTM request.

<cfm-onedm-received>—Number of valid one-way delay measurement request packets received.

<cfm-onedm-received-invalid>—Number of invalid one-way delay measurement request packets received.

<cfm-onedm-received-outofsync>—Number of out of sync one-way delay measurement request packets received.

<cfm-onedm-sent>—Number of one-way delay measurement request packets sent.

<cfm-out-of-sequence-ccm-received>—Number of continuity-check messages received out of sequence.

<cfm-total-ccm-sent>—Number of continuity-check messages sent.

<cfm-total-ltm-received>—Number of linktrace-request messages received.

<cfm-total-ltm-sent>—Number of linktrace-request messages sent.

<cfm-total-ltr-received>—Number of linktrace-response messages received.

<cfm-total-ltr-sent>—Number of linktrace-response messages sent.

<cfm-local-mep-statistics>

Usage

```
<cfm-entry>
  <cfm-local-mep-statistics>
    <cfm-total-ccm-sent>cfm-total-ccm-sent</cfm-total-ccm-sent>
    <cfm-out-of-sequence-ccm-received>cfm-out-of-sequence-ccm-received
            </cfm-out-of-sequence-ccm-received>
    <cfm-lbm-sent>cfm-lbm-sent</cfm-lbm-sent>
    <cfm-lbr-sent>cfm-lbr-sent</cfm-lbr-sent>
    <cfm-lbr-received>cfm-lbr-received</cfm-lbr-received>
    <cfm-lbr-received-out-of-order>cfm-lbr-received-out-of-order
            </cfm-lbr-received-out-of-order>
    <cfm-lbr-bad-msdu>cfm-lbr-bad-msdu</cfm-lbr-bad-msdu>
    <cfm-total-ltm-sent>cfm-total-ltm-sent</cfm-total-ltm-sent>
    <cfm-total-ltm-received>cfm-total-ltm-received</cfm-total-ltm-received>
    <cfm-total-ltr-sent>cfm-total-ltr-sent</cfm-total-ltr-sent>
    <cfm-total-ltr-received>cfm-total-ltr-received</cfm-total-ltr-received>
    <cfm-next-ltm-sequence-number>cfm-next-ltm-sequence-number
            </cfm-next-ltm-sequence-number>
    <cfm-onedm-sent>cfm-onedm-sent</cfm-onedm-sent>
    <cfm-onedm-received>cfm-onedm-received</cfm-onedm-received>
    <cfm-onedm-received-invalid>cfm-onedm-received-invalid
            </cfm-onedm-received-invalid>
    <cfm-onedm-received-outofsync>cfm-onedm-received-outofsync
            </cfm-onedm-received-outofsync>
    <cfm-dmm-sent>cfm-dmm-sent</cfm-dmm-sent>
    <cfm-dmm-received>cfm-dmm-received</cfm-dmm-received>
    <cfm-dmm-received-invalid>cfm-dmm-received-invalid</cfm-dmm-received-invalid>
    <cfm-dmr-sent>cfm-dmr-sent</cfm-dmr-sent>
    <cfm-dmr-received>cfm-dmr-received</cfm-dmr-received>
    <cfm-dmr-received-invalid>cfm-dmr-received-invalid</cfm-dmr-received-invalid>
  </cfm-local-mep-statistics>
</cfm-entry>
```

Description No documentation is available yet.

Contents

<cfm-dmm-received>—Number of valid two-way delay measurement request packets received.

<cfm-dmm-received-invalid>—Number of invalid two-way delay measurement request packets received.

<cfm-dmm-sent>—Number of two-way delay measurement request packets sent.

<cfm-dmr-received>—Number of valid two-way delay measurement response packets received.

<cfm-dmr-received-invalid>—Number of invalid two-way delay measurement response packets received.

<cfm-dmr-sent>—Number of two-way delay measurement response packets sent.

<cfm-lbm-sent>—Number of loopback messages sent.

<cfm-lbr-bad-msdu>—Number of loopback responses received with corrupted data.

<cfm-lbr-received>—Number of valid in-order loopback responses received.

<cfm-lbr-received-out-of-order>—Number of valid out-of-order loopback responses received.

<cfm-lbr-sent>—Number of loopback responses sent.

<cfm-next-ltm-sequence-number>—Sequence Number of the next LTM request.

<cfm-onedm-received>—Number of valid one-way delay measurement request packets received.

<cfm-onedm-received-invalid>—Number of invalid one-way delay measurement request packets received.

<cfm-onedm-received-outofsync>—Number of out of sync one-way delay measurement request packets received.

<cfm-onedm-sent>—Number of one-way delay measurement request packets sent.

<cfm-out-of-sequence-ccm-received>—Number of continuity-check messages received out of sequence.

<cfm-total-ccm-sent>—Number of continuity-check messages sent.

<cfm-total-ltm-received>—Number of linktrace-request messages received.

<cfm-total-ltm-sent>—Number of linktrace-request messages sent.

<cfm-total-ltr-received>—Number of linktrace-response messages received.

<cfm-total-ltr-sent>—Number of linktrace-response messages sent.

<cfm-ltm-request-snapshot>

Usage

```
<cfm-linktrace-path-database>
  <cfm-ltm-request-snapshot>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-level>cfm-level</cfm-level>
    <cfm-maintenance-domain-name>cfm-maintenance-domain-name
            </cfm-maintenance-domain-name>
    <cfm-maintenance-association-name>cfm-maintenance-association-name
            </cfm-maintenance-association-name>
    <cfm-local-mep-identifier>cfm-local-mep-identifier</cfm-local-mep-identifier>
    <cfm-ltm-target-mac-address>cfm-ltm-target-mac-address
            </cfm-ltm-target-mac-address>
  </cfm-ltm-request-snapshot>
</cfm-linktrace-path-database>
```

Description No documentation is available yet.

Contents <cfm-interface-name>—Name of interface.

<cfm-level>—Maintenance-domain level.

<cfm-local-mep-identifier>—Identifier of local MEP.

<cfm-ltm-target-mac-address>—MAC address of the target host in linktrace request.

<cfm-maintenance-association-name>—Name of maintenance association.

<cfm-maintenance-domain-name>—Name of maintenance domain.

<cfm-ltr-reply-entry>

Usage

```
<cfm-linktrace-path-database>
  <cfm-ltr-reply-entry>
    <cfm-ltm-transaction-identifier>cfm-ltm-transaction-identifier
                </cfm-ltm-transaction-identifier>
    <cfm-ltr-request-hop-identifier>cfm-ltr-request-hop-identifier
                </cfm-ltr-request-hop-identifier>
    <cfm-ltr-reply-ttl>cfm-ltr-reply-ttl</cfm-ltr-reply-ttl>
    <cfm-ltr-mep-mip-mac-address>cfm-ltr-mep-mip-mac-address
                </cfm-ltr-mep-mip-mac-address>
    <cfm-ltr-next-hop-mac-address>cfm-ltr-next-hop-mac-address
                </cfm-ltr-next-hop-mac-address>
  </cfm-ltr-reply-entry>
</cfm-linktrace-path-database>
```

Description No documentation is available yet.

Contents <cfm-ltm-transaction-identifier>—Identifier which uniquely identifies a linktrace request.

<cfm-ltr-mep-mip-mac-address>—MAC address of the of the host sending the linktrace reply.

<cfm-ltr-next-hop-mac-address>—MAC address of the next-hop to which the linktrace request is forwarded.

<cfm-ltr-reply-ttl>—Time-to-live value received in linktrace reply.

<cfm-ltr-request-hop-identifier>—Identifier showing the order in which linktrace replies are received.

<cfm-mep-database>

Usage

```
<rpc-reply>
  <cfm-mep-database>
    <cfm-entry>...</cfm-entry>
  </cfm-mep-database>
</rpc-reply>
```

Description Information about MEP database for one or more CFM sessions.

Contents <cfm-entry>—No documentation is available yet.

<cfm-mep-database-continuity-check>

Usage

```
<cfm-entry>
  <cfm-mep-database-continuity-check>
    <cfm-continuity-check-status>cfm-continuity-check-status
                </cfm-continuity-check-status>
    <cfm-continuity-check-interval>cfm-continuity-check-interval
                </cfm-continuity-check-interval>
    <cfm-continuity-check-loss-threshold>cfm-continuity-check-loss-threshold
                </cfm-continuity-check-loss-threshold>
  </cfm-mep-database-continuity-check>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-continuity-check-interval>—Continuity-check message interval.

<cfm-continuity-check-loss-threshold>—Maximum number of continuity-check messages that the endpoint can fail to acknowledge before it is marked as inoperative.

<cfm-continuity-check-status>—Continuity-check protocol status.

<cfm-mep-database-interface>

Usage

```
<cfm-entry>
  <cfm-mep-database-interface>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-interface-status>cfm-interface-status</cfm-interface-status>
    <cfm-interface-link-status>cfm-interface-link-status
                </cfm-interface-link-status>
  </cfm-mep-database-interface>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-interface-link-status>—Operational status of this interface.

<cfm-interface-name>—Name of interface.

<cfm-interface-status>—Status of 802.1ag on the interface.

<cfm-mep-database-session>

Usage

```
<cfm-entry>
  <cfm-mep-database-session>
    <cfm-maintenance-domain-name>cfm-maintenance-domain-name
                </cfm-maintenance-domain-name>
    <cfm-maintenance-domain-name-format>cfm-maintenance-domain-name-format
                </cfm-maintenance-domain-name-format>
    <cfm-level>cfm-level</cfm-level>
    <cfm-maintenance-association-name>cfm-maintenance-association-name
                </cfm-maintenance-association-name>

<cfm-maintenance-association-name-format>cfm-maintenance-association-name-format
                </cfm-maintenance-association-name-format>
  </cfm-mep-database-session>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-level>—Maintenance-domain level.

<cfm-maintenance-association-name>—Name of maintenance association.

<cfm-maintenance-association-name-format>—Format of maintenance association name.

<cfm-maintenance-domain-name>—Name of maintenance domain.

<cfm-maintenance-domain-name-format>—Format of maintenance domain name.

<cfm-mep-statistics>

Usage

```
<rpc-reply>
  <cfm-mep-statistics>
    <cfm-entry>...</cfm-entry>
  </cfm-mep-statistics>
</rpc-reply>
```

Description Information about MEP statistics for one or more CFM sessions.

Contents <cfm-entry>—No documentation is available yet.

<cfm-mep-statistics-mep-summary>

Usage
```
<cfm-entry>
  <cfm-mep-statistics-mep-summary>
    <cfm-local-mep-identifier>cfm-local-mep-identifier</cfm-local-mep-identifier>
    <cfm-local-mep-mac-address>cfm-local-mep-mac-address
                </cfm-local-mep-mac-address>
    <cfm-remote-mep-count>cfm-remote-mep-count</cfm-remote-mep-count>
  </cfm-mep-statistics-mep-summary>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-local-mep-identifier>—Identifier of local MEP.

<cfm-local-mep-mac-address>—MAC address of local MEP.

<cfm-remote-mep-count>—Number of remote MEP configured or learnt.

<cfm-mip-information>

Usage
```
<rpc-reply>
  <cfm-mip-information>
    <cfm-instance-mip-information>...</cfm-instance-mip-information>
  </cfm-mip-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-instance-mip-information>—No documentation is available yet.

<cfm-nexthop-information>

Usage

```
<rpc-reply>
  <cfm-nexthop-information>
    <cfm-nexthop-index>cfm-nexthop-index</cfm-nexthop-index>
    <cfm-nexthop-type>cfm-nexthop-type</cfm-nexthop-type>
    <cfm-nexthop-last-operation>cfm-nexthop-last-operation
                </cfm-nexthop-last-operation>
    <cfm-nexthop-last-error>cfm-nexthop-last-error</cfm-nexthop-last-error>
    <cfm-nexthop-statistics>cfm-nexthop-statistics</cfm-nexthop-statistics>
    <cfm-nexthop-reference-count>cfm-nexthop-reference-count
                </cfm-nexthop-reference-count>
    <cfm-nexthop-owner>cfm-nexthop-owner</cfm-nexthop-owner>
    <cfm-level>cfm-level</cfm-level>
    <cfm-flood-nexthop-components>...</cfm-flood-nexthop-components>
  </cfm-nexthop-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-flood-nexthop-components>—No documentation is available yet.

<cfm-level>—Maintenance-domain level.

<cfm-nexthop-index>—No documentation is available yet.

<cfm-nexthop-last-error>—No documentation is available yet.

<cfm-nexthop-last-operation>—No documentation is available yet.

<cfm-nexthop-owner>—No documentation is available yet.

<cfm-nexthop-reference-count>—No documentation is available yet.

<cfm-nexthop-statistics>—No documentation is available yet.

<cfm-nexthop-type>—No documentation is available yet.

<cfm-remote-mep>

Usage

```
<cfm-interface-remote-meps | cfm-remote-meps>
  <cfm-remote-mep>
    <cfm-remote-mep-identifier>cfm-remote-mep-identifier
                </cfm-remote-mep-identifier>
    <cfm-remote-mep-state>cfm-remote-mep-state</cfm-remote-mep-state>
    <cfm-remote-mep-mac-address>cfm-remote-mep-mac-address
                </cfm-remote-mep-mac-address>
    <cfm-remote-mep-interface>cfm-remote-mep-interface</cfm-remote-mep-interface>
    <cfm-remote-mep-type>cfm-remote-mep-type</cfm-remote-mep-type>
    <cfm-remote-mep-rdi>cfm-remote-mep-rdi</cfm-remote-mep-rdi>
    <cfm-remote-mep-last-flapped>cfm-remote-mep-last-flapped
                </cfm-remote-mep-last-flapped>
    <cfm-remote-mep-port-status-tlv>cfm-remote-mep-port-status-tlv
                </cfm-remote-mep-port-status-tlv>
    <cfm-remote-mep-interface-status-tlv>cfm-remote-mep-interface-status-tlv
                </cfm-remote-mep-interface-status-tlv>
  </cfm-remote-mep>
</cfm-interface-remote-meps | cfm-remote-meps>
```

Description No documentation is available yet.

Contents

<cfm-remote-mep-identifier>—Identifier of remote MEP.

<cfm-remote-mep-interface>—Interface on which this remote MEP has been discovered.

<cfm-remote-mep-interface-status-tlv>—Interface status TLV information in the received CCM from remote MEP.

<cfm-remote-mep-last-flapped>—Last time when remote MEP flapped.

<cfm-remote-mep-mac-address>—MAC address of remote MEP.

<cfm-remote-mep-port-status-tlv>—Port status TLV information in the received CCM from remote MEP.

<cfm-remote-mep-rdi>—Remote defect indication status of the remote MEP.

<cfm-remote-mep-state>—State of the remote MEP.

<cfm-remote-mep-type>—Type of the remote MEP.

<cfm-remote-mep-ap>

Usage

```
<cfm-remote-meps>
  <cfm-remote-mep-ap>
    <cfm-action-profile-name>cfm-action-profile-name</cfm-action-profile-name>
    <cfm-ap-last-event>cfm-ap-last-event</cfm-ap-last-event>
    <cfm-ap-action-name>cfm-ap-action-name</cfm-ap-action-name>
    <cfm-ap-action-time>cfm-ap-action-time</cfm-ap-action-time>
    <cfm-ap-last-event-cleared-time>cfm-ap-last-event-cleared-time
            </cfm-ap-last-event-cleared-time>
  </cfm-remote-mep-ap>
</cfm-remote-meps>
```

Description No documentation is available yet.

Contents <cfm-action-profile-name>—Name of the action profile.

<cfm-ap-action-name>—Shows the action taken.

<cfm-ap-action-time>—Shows the time at which action was taken.

<cfm-ap-last-event>—Displays the last occurred event.

<cfm-ap-last-event-cleared-time>—Shows the time at which last event was cleared.

<cfm-remote-mep-brief-summary>

Usage

```
<cfm-entry>
  <cfm-remote-mep-brief-summary>
    <cfm-remote-mep-identifier>cfm-remote-mep-identifier
            </cfm-remote-mep-identifier>
    <cfm-remote-mep-mac-address>cfm-remote-mep-mac-address
            </cfm-remote-mep-mac-address>
  </cfm-remote-mep-brief-summary>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-remote-mep-identifier>—Identifier of remote MEP.

<cfm-remote-mep-mac-address>—MAC address of remote MEP.

<cfm-remote-meps>

Usage

```
<cfm-entry>
  <cfm-remote-meps>
    <cfm-remote-mep-count>cfm-remote-mep-count</cfm-remote-mep-count>
    <cfm-remote-mep>...</cfm-remote-mep>
    <cfm-remote-mep-ap>...</cfm-remote-mep-ap>
  </cfm-remote-meps>
</cfm-entry>
```

Description No documentation is available yet.

Contents <cfm-remote-mep>—No documentation is available yet.

<cfm-remote-mep-ap>—No documentation is available yet.

<cfm-remote-mep-count>—Number of remote MEP configured or learnt.

<cfm-route-information>

Usage

```
<rpc-reply>
  <cfm-route-information>
    <cfm-route-prefix>cfm-route-prefix</cfm-route-prefix>
    <cfm-nexthop-index>cfm-nexthop-index</cfm-nexthop-index>
    <cfm-route-last-operation>cfm-route-last-operation</cfm-route-last-operation>
    <cfm-route-last-error>cfm-route-last-error</cfm-route-last-error>
    <cfm-route-statistics>cfm-route-statistics</cfm-route-statistics>
    <cfm-level>cfm-level</cfm-level>
    <cfm-route-table-index>cfm-route-table-index</cfm-route-table-index>
    <cfm-route-owner>cfm-route-owner</cfm-route-owner>
    <cfm-flood-nexthop-components>...</cfm-flood-nexthop-components>
  </cfm-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-flood-nexthop-components>—No documentation is available yet.

<cfm-level>—Maintenance-domain level.

<cfm-nexthop-index>—No documentation is available yet.

<cfm-route-last-error>—No documentation is available yet.

<cfm-route-last-operation>—No documentation is available yet.

<cfm-route-owner>—No documentation is available yet.

<cfm-route-prefix>—No documentation is available yet.

<cfm-route-statistics>—No documentation is available yet.

<cfm-route-table-index>—No documentation is available yet.

<cfm-route-maintenance-domain-level>

Usage

```
<cfm-transmit-interface-information>
  <cfm-route-maintenance-domain-level>
    <cfm-level>cfm-level</cfm-level>
    <cfm-local-mep-direction>cfm-local-mep-direction</cfm-local-mep-direction>
    <cfm-transmit-route-prefix>cfm-transmit-route-prefix
                </cfm-transmit-route-prefix>
    <cfm-nexthop-index>cfm-nexthop-index</cfm-nexthop-index>
    <cfm-flood-nexthop-components>...</cfm-flood-nexthop-components>
  </cfm-route-maintenance-domain-level>
</cfm-transmit-interface-information>
```

Description No documentation is available yet.

Contents <cfm-flood-nexthop-components>—No documentation is available yet.

<cfm-level>—Maintenance-domain level.

<cfm-local-mep-direction>—Direction in which continuity-check messages are sent.

<cfm-nexthop-index>—No documentation is available yet.

<cfm-transmit-route-prefix>—Route prefix looked up for forwarding locally generated packets.

<cfm-route-socket-message-counters>

Usage

```
<cfm-counters-route-socket-operations | cfm-counters-route-socket-received>
  <cfm-route-socket-message-counters>
    <cfm-route-socket-message-type>cfm-route-socket-message-type
                </cfm-route-socket-message-type>
    <cfm-route-socket-message-add>cfm-route-socket-message-add
                </cfm-route-socket-message-add>
    <cfm-route-socket-message-change>cfm-route-socket-message-change
                </cfm-route-socket-message-change>
    <cfm-route-socket-message-delete>cfm-route-socket-message-delete
                </cfm-route-socket-message-delete>
  </cfm-route-socket-message-counters>
</cfm-counters-route-socket-operations | cfm-counters-route-socket-received>
```

Description No documentation is available yet.

Contents <cfm-route-socket-message-add>—No documentation is available yet.

<cfm-route-socket-message-change>—No documentation is available yet.

<cfm-route-socket-message-delete>—No documentation is available yet.

<cfm-route-socket-message-type>—No documentation is available yet.

<cfm-transmit-interface-information>

Usage

```
<rpc-reply>
  <cfm-transmit-interface-information>
    <cfm-interface-name>cfm-interface-name</cfm-interface-name>
    <cfm-instance-name>cfm-instance-name</cfm-instance-name>
    <cfm-route-maintenance-domain-level>...</cfm-route-maintenance-domain-level>
  </cfm-transmit-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cfm-instance-name>—Forwarding instance.

<cfm-interface-name>—Name of interface.

<cfm-route-maintenance-domain-level>—No documentation is available yet.

<cfmd-internal-state>

Usage

```
<rpc-reply>
  <cfmd-internal-state>
    <cfm-session-count>cfm-session-count</cfm-session-count>
    <cfm-session-created-count>cfm-session-created-count
            </cfm-session-created-count>
    <cfm-session-deleted-count>cfm-session-deleted-count
            </cfm-session-deleted-count>
    <cfm-session-freed-count>cfm-session-freed-count</cfm-session-freed-count>
    <cfm-vpls>cfm-vpls</cfm-vpls>
    <cfm-token-based-forwarding>cfm-token-based-forwarding
            </cfm-token-based-forwarding>
    <cfm-forwarding-table-filtering-simulation>cfm-forwarding-table-filtering-simulation
            </cfm-forwarding-table-filtering-simulation>
    <cfm-hardware-assist-flooding>cfm-hardware-assist-flooding
            </cfm-hardware-assist-flooding>
    <cfm-gres-flood-resynchronization>cfm-gres-flood-resynchronization
            </cfm-gres-flood-resynchronization>
    <cfm-shared-interface-filters>cfm-shared-interface-filters
            </cfm-shared-interface-filters>
    <cfm-ppmd-connection-state>cfm-ppmd-connection-state
            </cfm-ppmd-connection-state>
    <cfm-ppmd-flow-state>cfm-ppmd-flow-state</cfm-ppmd-flow-state>
    <cfm-ppmd-job-state>cfm-ppmd-job-state</cfm-ppmd-job-state>
    <cfm-ppmd-blocked-count>cfm-ppmd-blocked-count</cfm-ppmd-blocked-count>
    <cfm-dfwd-connection-state>cfm-dfwd-connection-state
            </cfm-dfwd-connection-state>
    <cfm-dfwd-reconnect-count>cfm-dfwd-reconnect-count</cfm-dfwd-reconnect-count>
    <cfm-dfwd-requests-sent>cfm-dfwd-requests-sent</cfm-dfwd-requests-sent>
    <cfm-dfwd-requests-accepted>cfm-dfwd-requests-accepted
            </cfm-dfwd-requests-accepted>
    <cfm-dfwd-requests-rejected>cfm-dfwd-requests-rejected
            </cfm-dfwd-requests-rejected>
    <cfm-dfwd-requests-lost>cfm-dfwd-requests-lost</cfm-dfwd-requests-lost>
    <cfm-dfwd-pending-transactions>...</cfm-dfwd-pending-transactions>
  </cfmd-internal-state>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<cfm-dfwd-connection-state>—No documentation is available yet.

<cfm-dfwd-pending-transactions>—No documentation is available yet.

<cfm-dfwd-reconnect-count>—Count of reconnects made to firewall daemon.

<cfm-dfwd-requests-accepted>—Count of filter transaction requests accepted by firewall daemon.

<cfm-dfwd-requests-lost>—Count of filter transaction requests lost due to connection loss with firewall daemon.

<cfm-dfwd-requests-rejected>—Count of filter transaction requests rejected by firewall daemon.

<cfm-dfwd-requests-sent>—Count of filter transaction requests sent to firewall daemon.

<cfm-forwarding-table-filtering-simulation>—No documentation is available yet.

<cfm-gres-flood-resynchronization>—No documentation is available yet.

<cfm-hardware-assist-flooding>—No documentation is available yet.

<cfm-ppmd-blocked-count>—No documentation is available yet.

<cfm-ppmd-connection-state>—No documentation is available yet.

<cfm-ppmd-flow-state>—No documentation is available yet.

<cfm-ppmd-job-state>—No documentation is available yet.

<cfm-session-count>—No documentation is available yet.

<cfm-session-created-count>—No documentation is available yet.

<cfm-session-deleted-count>—No documentation is available yet.

<cfm-session-freed-count>—No documentation is available yet.

<cfm-shared-interface-filters>—No documentation is available yet.

<cfm-token-based-forwarding>—No documentation is available yet.

<cfm-vpls>—No documentation is available yet.

Summary of Chassis Response Tags

This section lists JUNOS XML tags that contain operational information about the routing platform chassis. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-chassis. To review the DTD for the tags, see "DTD for Chassis Response Tags" on page 2063.

<alarm-indicators>

Usage

```
<front-panel>
  <alarm-indicators>
    <red-led/>
    <yellow-led/>
    <major-alarm-relay/>
    <minor-alarm-relay/>
  </alarm-indicators>
</front-panel>
```

Description Information about alarms from the craft interface.

Contents <major-alarm-relay>—Major (red) alarm relay is active.

<minor-alarm-relay>—Minor (yellow) alarm relay is active.

<red-led>—Red LED is lit.

<yellow-led>—Yellow LED is lit.

<cb>

Usage

```
<cb-panel>
  <cb>
    <slot>slot</slot>
    <amber-led/>
    <green-led/>
    <blue-led/>
  </cb>
</cb-panel>
```

Description State of status LEDs on a Control Board.

Contents <amber-led>—Amber LED is lit.

<blue-led>—Blue LED is lit.

<green-led>—Green LED is lit.

<slot>—No documentation is available yet.

<cb-panel>

Usage
```
<craft-information>
  <cb-panel>
    <cb>...</cb>
  </cb-panel>
</craft-information>
```

Description State of status LEDs on one or more Control Boards.

Contents <cb>—State of status LEDs on a Control Board.

<cfm-ok-fail-led>

Usage
```
<recb-panel>
  <cfm-ok-fail-led>
    <red-led/>
    <yellow-led/>
    <amber-led/>
  </cfm-ok-fail-led>
</recb-panel>
```

Description State of the CFM Ok/Fail LED on the craft interface.

Contents <amber-led>—Amber LED is lit.

<red-led>—Red LED is lit.

<yellow-led>—Yellow LED is lit.

<cfm-service-led>

Usage
```
<recb-panel>
  <cfm-service-led>
    <red-led/>
    <yellow-led/>
    <amber-led/>
  </cfm-service-led>
</recb-panel>
```

Description State of the CFM Service LED on the craft interface.

Contents <amber-led>—Amber LED is lit.

<red-led>—Red LED is lit.

<yellow-led>—Yellow LED is lit.

<chassis>

Usage
```
<chassis-inventory | firmware-information>
  <chassis>
    <hardware-incomplete/>
    <name>name</name>
    <version>version</version>
    <part-number>part-number</part-number>
    <serial-number>serial-number</serial-number>
    <model-number>model-number</model-number>
    <clei-code>clei-code</clei-code>
    <description>description</description>
    <i2c-information>...</i2c-information>
    <chassis-module>...</chassis-module>
  </chassis>
</chassis-inventory | firmware-information>
```

Description Hardware inventory of this chassis.

Contents <chassis-module>—No documentation is available yet.

<clei-code>—Common Language Equipment Identifier code of this component.

<description>—Description of this component.

<hardware-incomplete>—No documentation is available yet.

<i2c-information>—No documentation is available yet.

<model-number>—Model number of this component.

<name>—Name of this component.

<part-number>—Part number of this component.

<serial-number>—Serial number of this component.

<version>—Version of this component.

<chassis-inventory>

Usage
```
<multi-routing-engine-item>
  <chassis-inventory>
    <chassis>...</chassis>
  </chassis-inventory>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <chassis>—Hardware inventory of this chassis.

<chassis-location>

Usage
```
<rpc-reply>
  <chassis-location>
    <chassis-location-information>...</chassis-location-information>
  </chassis-location>
</rpc-reply>
```

Description No documentation is available yet.

Contents <chassis-location-information>—No documentation is available yet.

<chassis-location-fpc>

Usage
```
<rpc-reply>
  <chassis-location-fpc>
    <chassis-location-fpc-information>...</chassis-location-fpc-information>
  </chassis-location-fpc>
</rpc-reply>
```

Description No documentation is available yet.

Contents <chassis-location-fpc-information>—No documentation is available yet.

<chassis-location-fpc-information>

Usage
```
<chassis-location-fpc>
  <chassis-location-fpc-information>
    <global-fpc-number>global-fpc-number</global-fpc-number>
    <lcc-number>lcc-number</lcc-number>
    <local-fpc-number>local-fpc-number</local-fpc-number>
  </chassis-location-fpc-information>
</chassis-location-fpc>
```

Description No documentation is available yet.

Contents <global-fpc-number>—Global FPC number.

<lcc-number>—LCC number.

<local-fpc-number>—Local FPC number.

<chassis-location-information>

Usage

```
<chassis-location | multi-routing-engine-item>
  <chassis-location-information>
    <country-code>country-code</country-code>
    <postal-code>postal-code</postal-code>
    <npa-nxx>npa-nxx</npa-nxx>
    <latitude>latitude</latitude>
    <longitude>longitude</longitude>
    <altitude>altitude</altitude>
    <lata>lata</lata>
    <vcoord>vcoord</vcoord>
    <hcoord>hcoord</hcoord>
    <building>building</building>
    <floor>floor</floor>
    <rack>rack</rack>
  </chassis-location-information>
</chassis-location | multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <altitude>—Feet above (or below) sea level.

<building>—Building information.

<country-code>—Country code.

<floor>—Floor in building.

<hcoord>—Bellcore horizontal coordinate.

<lata>—Long distance service area.

<latitude>—Latitude.

<longitude>—Longitude.

<npa-nxx>—Six digits of the phone number.

<postal-code>—Postal code.

<rack>—Rack.

<vcoord>—Bellcore vertical coordinate.

<chassis-module>

Usage

```
<chassis>
  <chassis-module>
    <name>name</name>
    <version>version</version>
    <part-number>part-number</part-number>
    <serial-number>serial-number</serial-number>
    <model-number>model-number</model-number>
    <clei-code>clei-code</clei-code>
    <description>description</description>
    <i2c-information>...</i2c-information>
    <firmware>...</firmware>
    <chassis-sub-module>...</chassis-sub-module>
    <chassis-re-disk-module>...</chassis-re-disk-module>
    <chassis-re-usb-module>...</chassis-re-usb-module>
  </chassis-module>
</chassis>
```

Description No documentation is available yet.

Contents

<chassis-re-disk-module>—No documentation is available yet.

<chassis-re-usb-module>—No documentation is available yet.

<chassis-sub-module>—No documentation is available yet.

<clei-code>—Common Language Equipment Identifier code of this component.

<description>—Description of this component.

<firmware>—No documentation is available yet.

<i2c-information>—No documentation is available yet.

<model-number>—Model number of this component.

<name>—Name of this component.

<part-number>—Part number of this component.

<serial-number>—Serial number of this component.

<version>—Version of this component.

<chassis-re-disk-module>

Usage

```
<chassis-module>
  <chassis-re-disk-module>
    <name>name</name>
    <model>model</model>
    <serial-number>serial-number</serial-number>
    <disk-size>disk-size</disk-size>
    <description>description</description>
  </chassis-re-disk-module>
</chassis-module>
```

Description No documentation is available yet.

Contents <description>—Description of this component.

<disk-size>—Disk size (megabytes).

<model>—No documentation is available yet.

<name>—Name of this component.

<serial-number>—Serial number of this component.

<chassis-re-usb-module>

Usage

```
<chassis-module>
  <chassis-re-usb-module>
    <name>name</name>
    <product>product</product>
    <product-number>product-number</product-number>
    <vendor>vendor</vendor>
    <description>description</description>
  </chassis-re-usb-module>
</chassis-module>
```

Description No documentation is available yet.

Contents <description>—Description of this component.

<name>—Name of this component.

<product>—No documentation is available yet.

<product-number>—No documentation is available yet.

<vendor>—No documentation is available yet.

<chassis-sub-module>

Usage

```
<chassis-module>
  <chassis-sub-module>
    <name>name</name>
    <version>version</version>
    <part-number>part-number</part-number>
    <serial-number>serial-number</serial-number>
    <model-number>model-number</model-number>
    <clei-code>clei-code</clei-code>
    <description>description</description>
    <i2c-information>...</i2c-information>
    <firmware>...</firmware>
    <chassis-sub-sub-module>...</chassis-sub-sub-module>
  </chassis-sub-module>
</chassis-module>
```

Description No documentation is available yet.

Contents <chassis-sub-sub-module>—No documentation is available yet.

<clei-code>—Common Language Equipment Identifier code of this component.

<description>—Description of this component.

<firmware>—No documentation is available yet.

<i2c-information>—No documentation is available yet.

<model-number>—Model number of this component.

<name>—Name of this component.

<part-number>—Part number of this component.

<serial-number>—Serial number of this component.

<version>—Version of this component.

<chassis-sub-sub-module>

Usage

```
<chassis-sub-module>
  <chassis-sub-sub-module>
    <name>name</name>
    <version>version</version>
    <part-number>part-number</part-number>
    <serial-number>serial-number</serial-number>
    <model-number>model-number</model-number>
    <clei-code>clei-code</clei-code>
    <description>description</description>
  </chassis-sub-sub-module>
</chassis-sub-module>
```

Description No documentation is available yet.

Contents <clei-code>—Common Language Equipment Identifier code of this component.

<description>—Description of this component.

<model-number>—Model number of this component.

<name>—Name of this component.

<part-number>—Part number of this component.

<serial-number>—Serial number of this component.

<version>—Version of this component.

<chassisd-database-memory-usage>

Usage

```
<multi-routing-engine-item>
  <chassisd-database-memory-usage>
    <database-memory-usage>...</database-memory-usage>
  </chassisd-database-memory-usage>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <database-memory-usage>—No documentation is available yet.

<clock-synchronization>

Usage

```
<clock-synchronization-information>
  <clock-synchronization>
    <clock-fru>clock-fru</clock-fru>
    <mastership-state>mastership-state</mastership-state>
    <signal-type>signal-type</signal-type>
    <switching-mode>switching-mode</switching-mode>
    <line-termination>line-termination</line-termination>
    <transmit>transmit</transmit>
    <validation-interval>validation-interval</validation-interval>
    <automatic-switching>automatic-switching</automatic-switching>
    <marked-as-failed-source-list>...</marked-as-failed-source-list>
    <synchronization-source-list>...</synchronization-source-list>
  </clock-synchronization>
</clock-synchronization-information>
```

Description No documentation is available yet.

Contents <automatic-switching>—Clock synchronization source switching: manual or automatic.

<clock-fru>—FRU on which clock module is present.

<line-termination>—How external signal is wired to redundant CBs.

<marked-as-failed-source-list>—No documentation is available yet.

<mastership-state>—Current state of mastership on this Routing Engine.

<signal-type>—Frequency for provided reference clocks.

<switching-mode>—Should system revert to higher priority valid source.

<synchronization-source-list>—No documentation is available yet.

<transmit>—Control whether diagnostic timing signal is transmitted.

<validation-interval>—Time between successive frequency measurements.

<clock-synchronization-information>

Usage

```
<rpc-reply>
  <clock-synchronization-information>
    <clock-synchronization>...</clock-synchronization>
  </clock-synchronization-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <clock-synchronization>—No documentation is available yet.

<configured-source>

Usage

```
<configured-source-list>
  <configured-source>
    <source-priority>source-priority</source-priority>
    <source-name>source-name</source-name>
    <deviation>deviation</deviation>
    <last-deviation>last-deviation</last-deviation>
    <status>status</status>
  </configured-source>
</configured-source-list>
```

Description No documentation is available yet.

Contents <deviation>—Frequency deviation of clock synchronization source.

<last-deviation>—Frequency deviation measured last.

<source-name>—Name of clock synchronization source.

<source-priority>—Priority of clock synchronization source.

<status>—Status of clock synchronization source.

<configured-source-list>

Usage

```
<synchronization-source-list>
  <configured-source-list>
    <configured-source>...</configured-source>
  </configured-source-list>
</synchronization-source-list>
```

Description No documentation is available yet.

Contents <configured-source>—No documentation is available yet.

<controller-information>

Usage

```
<poe>
  <controller-information>
    <controller-number>controller-number</controller-number>
    <controller-maxpower>controller-maxpower</controller-maxpower>
    <controller-power>controller-power</controller-power>
    <controller-guardband>controller-guardband</controller-guardband>
    <controller-management>controller-management</controller-management>
  </controller-information>
</poe>
```

Description No documentation is available yet.

Contents

<controller-guardband>—Guard band.

<controller-management>—Management mode.

<controller-maxpower>—Power limit.

<controller-number>—Virtual-chassis index.

<controller-power>—Power.

<craft-information>

Usage

```
<rpc-reply>
  <craft-information>
    <front-panel>...</front-panel>
    <recb-panel>...</recb-panel>
    <mcs-panel>...</mcs-panel>
    <sfm-panel>...</sfm-panel>
    <pcg-panel>...</pcg-panel>
    <cb-panel>...</cb-panel>
    <sib-panel>...</sib-panel>
    <scg-panel>...</scg-panel>
    <feb-panel>...</feb-panel>
    <power-supply-panel>...</power-supply-panel>
    <fan-tray-panel>...</fan-tray-panel>
    <output>output</output>
  </craft-information>
</rpc-reply>
```

Description Information from the craft interface and, if applicable, the state ofthe status LEDs on the front panels of other components installed in the chassis.

Contents

<cb-panel>—State of status LEDs on one or more Control Boards.

<fan-tray-panel>—State of status LEDs on the craft interface for Fan Trays.

<feb-panel>—State of the status LEDs on the faceplate of one or more Forwarding Engine Boards.

<front-panel>—Information from the craft interface.

<mcs-panel>—State of the status LEDs on the faceplate of one or more Miscellaneous Control Subsystems.

<output>—Formatted ASCII output displayed by the CLI.

<pcg-panel>—State of the status LEDs on the faceplate of one or more Packet Forwarding Engine Clock Generators.

<power-supply-panel>—State of the status LEDs on the faceplate of one or more power supplies.

<recb-panel>—Information abour LEDs from the craft interface.

<scg-panel>—State of the status LEDs on the faceplate of one or more SONET ClockGenerators.

<sfm-panel>—State of the status LEDs on the faceplate of one or more Switching and Forwarding Modules.

<sib-panel>—State of the status LEDs on the faceplate of one or more Switch Interface Boards. Some of the LEDs also appear on the craft interface.

<current-source>

Usage

```
<synchronization-source-list>
  <current-source>
    <clock-state>clock-state</clock-state>
    <up-time>up-time</up-time>
    <active-time>active-time</active-time>
    <deviation>deviation</deviation>
    <last-deviation>last-deviation</last-deviation>
  </current-source>
</synchronization-source-list>
```

Description No documentation is available yet.

Contents <active-time>—Time since clock synchronization source is in use.

<clock-state>—State of the clock synchronization source.

<deviation>—Frequency deviation of clock synchronization source.

<last-deviation>—Frequency deviation measured last.

<up-time>—Length of time this component has been operational.

<database-memory-usage>

Usage

```
<chassisd-database-memory-usage>
  <database-memory-usage>
    <database-size>database-size</database-size>
    <database-allocated-size>database-allocated-size</database-allocated-size>
    <database-free-size>database-free-size</database-free-size>
  </database-memory-usage>
</chassisd-database-memory-usage>
```

Description No documentation is available yet.

Contents <database-allocated-size>—Number of bytes used by the database.

<database-free-size>—Number of bytes free within the database.

<database-size>—Database size.

<dc-detail>

Usage

```
<dc-information>
  <dc-detail>
    <dc-device>dc-device</dc-device>
    <dc-voltage>dc-voltage</dc-voltage>
    <dc-current>dc-current</dc-current>
    <dc-power>dc-power</dc-power>
    <dc-load>dc-load</dc-load>
  </dc-detail>
</dc-information>
```

Description Detailed DC information.

Contents <dc-current>—No documentation is available yet.

<dc-device>—No documentation is available yet.

<dc-load>—No documentation is available yet.

<dc-power>—No documentation is available yet.

<dc-voltage>—No documentation is available yet.

<dc-information>

Usage

```
<environment-component-item>
  <dc-information>
    <dc-input>dc-input</dc-input>
    <dc-output>dc-output</dc-output>
    <dc-detail>...</dc-detail>
  </dc-information>
</environment-component-item>
```

Description No documentation is available yet.

Contents <dc-detail>—Detailed DC information.

<dc-input>—DC input state.

<dc-output>—DC output state.

<display-panel>

Usage

```
<front-panel>
  <display-panel>
    <display-line>display-line</display-line>
  </display-panel>
</front-panel>
```

Description Text currently appearing on the craft interface display.

Contents <display-line>—Single line of text currently appearing on the craft interface display.

<environment-component-information>

Usage

```
<rpc-reply>
  <environment-component-information>
    <environment-component-item>...</environment-component-item>
  </environment-component-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <environment-component-item>—Chassis environment component.

<environment-component-item>

Usage

```
<environment-component-information>
  <environment-component-item>
    <name>name</name>
    <state>state</state>
    <temperature-reading>...</temperature-reading>
    <bus-revision>bus-revision</bus-revision>
    <cmb-revision>cmb-revision</cmb-revision>
    <fpga-revision>fpga-revision</fpga-revision>
    <fpga-revision-detail>...</fpga-revision-detail>
    <slave-revision>slave-revision</slave-revision>
    <reason>reason</reason>
    <revision>...</revision>
    <slave-registers-information>...</slave-registers-information>
    <fpga-registers>...</fpga-registers>
    <power-information>...</power-information>
    <frequency>frequency</frequency>
    <pcg-frequency>...</pcg-frequency>
    <dc-information>...</dc-information>
    <load>load</load>
    <ac-input>ac-input</ac-input>
  </environment-component-item>
</environment-component-information>
```

Description Chassis environment component.

Contents <ac-input>—AC input state.

<bus-revision>—Bus revision.

<cmb-revision>—CMB revision.

<dc-information>—No documentation is available yet.

<fpga-registers>—FPGA regiseter values.

<fpga-revision>—FPGA revision.

<fpga-revision-detail>—FPGA revision in detail.

<frequency>—Frequency.

<load>—Load.

<name>—Name of this component.

<pcg-frequency>—PCG Frequency.

<power-information>—No documentation is available yet.

<reason>—Reason.

<revision>—No documentation is available yet.

<slave-registers-information>—No documentation is available yet.

<slave-revision>—Slave revision.

<state>—Status of the component.

<temperature-reading>—No documentation is available yet.

<environment-information>

Usage
```
<multi-routing-engine-item>
  <environment-information>
    <environment-item>...</environment-item>
  </environment-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <environment-item>—No documentation is available yet.

<environment-item>

Usage
```
<environment-information>
  <environment-item>
    <class>class</class>
    <name>name</name>
    <status>status</status>
    <temperature>temperature</temperature>
    <comment>comment</comment>
  </environment-item>
</environment-information>
```

Description No documentation is available yet.

Contents <class>—No documentation is available yet.

<comment>—No documentation is available yet.

<name>—Name of this component.

<status>—Status of clock synchronization source.

<temperature>—Temperature of the item.

<fan-information>

Usage

```
<rpc-reply>
  <fan-information>
    <name>name</name>
    <status>status</status>
    <rpm>rpm</rpm>
    <comment>comment</comment>
    <fan-information-item>fan-information-item</fan-information-item>
  </fan-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <comment>—No documentation is available yet.

<fan-information-item>—No documentation is available yet.

<name>—Name of this component.

<rpm>—Fan speed in RPM.

<status>—Status of clock synchronization source.

<fan-tray>

Usage

```
<fan-tray-panel>
  <fan-tray>
    <slot>slot</slot>
    <red-led/>
    <green-led/>
  </fan-tray>
</fan-tray-panel>
```

Description State of the status LEDs on the craft interface for a fan tray.

Contents <green-led>—Green LED is lit.

<red-led>—Red LED is lit.

<slot>—No documentation is available yet.

<fan-tray-panel>

Usage

```
<craft-information>
  <fan-tray-panel>
    <fan-tray>...</fan-tray>
  </fan-tray-panel>
</craft-information>
```

Description State of status LEDs on the craft interface for Fan Trays.

Contents <fan-tray>—State of the status LEDs on the craft interface for a fan tray.

<feb>

Usage

```
<feb-panel>
  <feb>
    <slot>slot</slot>
    <ok-led/>
    <fail-led/>
    <active-led/>
  </feb>
</feb-panel>
```

Description State of the status LEDs on the faceplate of a Forwarding Engine Board.

Contents <active-led>—Active LED is lit.

<fail-led>—Fail LED is lit.

<ok-led>—OK LED is lit.

<slot>—No documentation is available yet.

<feb-led>

Usage

```
<feb-led-information>
  <feb-led>
    <feb-slot>feb-slot</feb-slot>
    <feb-state>feb-state</feb-state>
    <feb-ok-led>feb-ok-led</feb-ok-led>
    <feb-fail-led>feb-fail-led</feb-fail-led>
    <feb-active-led>feb-active-led</feb-active-led>
    <connectivity-led0>connectivity-led0</connectivity-led0>
    <connectivity-led1>connectivity-led1</connectivity-led1>
    <connectivity-led2>connectivity-led2</connectivity-led2>
    <connectivity-led3>connectivity-led3</connectivity-led3>
    <connectivity-led4>connectivity-led4</connectivity-led4>
    <connectivity-led5>connectivity-led5</connectivity-led5>
  </feb-led>
</feb-led-information>
```

Description No documentation is available yet.

Contents <connectivity-led0>—State of connectivity LED on FEB for FPC 0.

<connectivity-led1>—State of connectivity LED on FEB for FPC 1.

<connectivity-led2>—State of connectivity LED on FEB for FPC 2.

<connectivity-led3>—State of connectivity LED on FEB for FPC 3.

<connectivity-led4>—State of connectivity LED on FEB for FPC 4.

<connectivity-led5>—State of connectivity LED on FEB for FPC 5.

<feb-active-led>—State of 'ACTIVE' LED on FEB.

<feb-fail-led>—State of 'FAIL' LED on FEB.

<feb-ok-led>—State of 'OK' LED on FEB.

<feb-slot>—FEB slot.

<feb-state>—FEB state.

<feb-led-information>

Usage

```
<rpc-reply>
  <feb-led-information>
    <feb-led>...</feb-led>
  </feb-led-information>
</rpc-reply>
```

Description Information about the LEDs on the Forwarding Engine Board.

Contents <feb-led>—No documentation is available yet.

<feb-panel>

Usage
```
<craft-information>
  <feb-panel>
    <feb>...</feb>
  </feb-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more Forwarding Engine Boards.

Contents <feb>—State of the status LEDs on the faceplate of a Forwarding Engine Board.

<feb-redundancy-error-information>

Usage
```
<rpc-reply>
  <feb-redundancy-error-information>
    <feb-redundancy-group-errors>...</feb-redundancy-group-errors>
  </feb-redundancy-error-information>
</rpc-reply>
```

Description FEB redundancy error information.

Contents <feb-redundancy-group-errors>—FEB redundancy error information for a FEB group.

<feb-redundancy-group-errors>

Usage
```
<feb-redundancy-error-information>
  <feb-redundancy-group-errors>
    <feb-redundancy-group-name>feb-redundancy-group-name
                </feb-redundancy-group-name>
    <feb-redundancy-group-description>feb-redundancy-group-description
                </feb-redundancy-group-description>
    <feb-redundancy-group-feb-errors>...</feb-redundancy-group-feb-errors>
  </feb-redundancy-group-errors>
</feb-redundancy-error-information>
```

Description FEB redundancy error information for a FEB group.

Contents <feb-redundancy-group-description>—FEB redundancy group description.

<feb-redundancy-group-feb-errors>—FEB redundancy error information for a FEB.

<feb-redundancy-group-name>—FEB redundancy group name.

<feb-redundancy-group-feb-errors>

Usage

```
<feb-redundancy-group-errors>
  <feb-redundancy-group-feb-errors>
    <feb-slot>feb-slot</feb-slot>
    <feb-state>feb-state</feb-state>
    <feb-harderror-state>feb-harderror-state</feb-harderror-state>
    <feb-redundancy-group-feb-fpc-errors>...</feb-redundancy-group-feb-fpc-errors>
    <feb-redundancy-group-feb-fabric-plane-errors>...
                    </feb-redundancy-group-feb-fabric-plane-errors>
  </feb-redundancy-group-feb-errors>
</feb-redundancy-group-errors>
```

Description FEB redundancy error information for a FEB.

Contents <feb-harderror-state>—FEB hard error state.

<feb-redundancy-group-feb-fabric-plane-errors>—FEB redundancy error information for a fabric plane.

<feb-redundancy-group-feb-fpc-errors>—FEB redundancy error information for an FPC.

<feb-slot>—FEB slot.

<feb-state>—FEB state.

<feb-redundancy-group-feb-fabric-plane-errors>

Usage

```
<feb-redundancy-group-feb-errors>
  <feb-redundancy-group-feb-fabric-plane-errors>
    <fabric-plane-number>fabric-plane-number</fabric-plane-number>
    <fabric-plane-status>fabric-plane-status</fabric-plane-status>
  </feb-redundancy-group-feb-fabric-plane-errors>
</feb-redundancy-group-feb-errors>
```

Description FEB redundancy error information for a fabric plane.

Contents <fabric-plane-number>—Fabric plane number.

<fabric-plane-status>—Fabric plane status.

<feb-redundancy-group-feb-fpc-errors>

Usage
```
<feb-redundancy-group-feb-errors>
  <feb-redundancy-group-feb-fpc-errors>
    <fpc-slot>fpc-slot</fpc-slot>
    <fpc-link-status>fpc-link-status</fpc-link-status>
  </feb-redundancy-group-feb-fpc-errors>
</feb-redundancy-group-feb-errors>
```

Description FEB redundancy error information for an FPC.

Contents <fpc-link-status>—FPC link status.

<fpc-slot>—FPC slot.

<feb-redundancy-group-information>

Usage
```
<feb-redundancy-information>
  <feb-redundancy-group-information>
    <feb-redundancy-group-name>feb-redundancy-group-name
                </feb-redundancy-group-name>
    <feb-redundancy-group-description>feb-redundancy-group-description
                </feb-redundancy-group-description>
    <feb-redundancy-group-information-item>...
                </feb-redundancy-group-information-item>
    <feb-redundancy-autofailover>feb-redundancy-autofailover
                </feb-redundancy-autofailover>
    <feb-redundancy-switch-reason>feb-redundancy-switch-reason
                </feb-redundancy-switch-reason>
  </feb-redundancy-group-information>
</feb-redundancy-information>
```

Description FEB redundancy information for a redundancy group.

Contents <feb-redundancy-autofailover>—FEB redundancy autofailover information.

<feb-redundancy-group-description>—FEB redundancy group description.

<feb-redundancy-group-information-item>—FEB redundancy information for a FEB.

<feb-redundancy-group-name>—FEB redundancy group name.

<feb-redundancy-switch-reason>—FEB redundancy reason for switchover.

<feb-redundancy-group-information-item>

Usage

```
<feb-redundancy-group-information>
  <feb-redundancy-group-information-item>
    <feb-slot>feb-slot</feb-slot>
    <feb-state>feb-state</feb-state>
    <redundancy-priority>redundancy-priority</redundancy-priority>
    <connected-fpcs>connected-fpcs</connected-fpcs>
    <redundancy-state>redundancy-state</redundancy-state>
    <redundancy-state-description>redundancy-state-description
                </redundancy-state-description>
  </feb-redundancy-group-information-item>
</feb-redundancy-group-information>
```

Description FEB redundancy information for a FEB.

Contents <connected-fpcs>—List of FPCs connected to the FEB in printable form.

<feb-slot>—FEB slot.

<feb-state>—FEB state.

<redundancy-priority>—FEB redundancy priority.

<redundancy-state>—Redundancy state.

<redundancy-state-description>—Description of redundancy state.

<feb-redundancy-information>

Usage

```
<rpc-reply>
  <feb-redundancy-information>
    <feb-redundancy-group-information>...</feb-redundancy-group-information>
  </feb-redundancy-information>
</rpc-reply>
```

Description FEB redundancy information.

Contents <feb-redundancy-group-information>—FEB redundancy information for a redundancy group.

<firmware>

Usage
```
<chassis-module | chassis-sub-module>
  <firmware>
    <type>type</type>
    <firmware-version>firmware-version</firmware-version>
  </firmware>
</chassis-module | chassis-sub-module>
```

Description No documentation is available yet.

Contents <firmware-version>—Firmware version string for this component.

<type>—Type of this component.

<firmware-information>

Usage
```
<multi-routing-engine-item>
  <firmware-information>
    <chassis>...</chassis>
  </firmware-information>
</multi-routing-engine-item>
```

Description Information about component firmware versions.

Contents <chassis>—Hardware inventory of this chassis.

<firmware-version-mismatch>

Usage
```
<system-firmware-compatibility-information>
  <firmware-version-mismatch>
    <routing-engine-software-version>routing-engine-software-version
                </routing-engine-software-version>
    <jfirmware-version>jfirmware-version</jfirmware-version>
  </firmware-version-mismatch>
</system-firmware-compatibility-information>
```

Description Firmware version mismatch warning.

Contents <jfirmware-version>—JFirmware version.

<routing-engine-software-version>—Version of software running on Routing engine.

<fm-fpc-ln>

Usage
```
<fm-fpc-state-information>
  <fm-fpc-ln>
    <slot>slot</slot>
    <fm-pfe-ln>...</fm-pfe-ln>
  </fm-fpc-ln>
</fm-fpc-state-information>
```

Description No documentation is available yet.

Contents <fm-pfe-ln>—No documentation is available yet.

<slot>—No documentation is available yet.

<fm-fpc-state-information>

Usage
```
<multi-routing-engine-item>
  <fm-fpc-state-information>
    <fm-fpc-ln>...</fm-fpc-ln>
  </fm-fpc-state-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <fm-fpc-ln>—No documentation is available yet.

<fm-pfe-ln>

Usage
```
<fm-fpc-ln>
  <fm-pfe-ln>
    <pfe-slot>pfe-slot</pfe-slot>
    <fm-sib-ln>...</fm-sib-ln>
  </fm-pfe-ln>
</fm-fpc-ln>
```

Description No documentation is available yet.

Contents <fm-sib-ln>—No documentation is available yet.

<pfe-slot>—No documentation is available yet.

<fm-plane-location>

Usage
```
<fm-plane-location-information>
  <fm-plane-location>
    <plane>plane</plane>
    <sib-f13-slot>sib-f13-slot</sib-f13-slot>
    <sib-f2-slot>sib-f2-slot</sib-f2-slot>
    <sib-l-slot>sib-l-slot</sib-l-slot>
  </fm-plane-location>
</fm-plane-location-information>
```

Description No documentation is available yet.

Contents <plane>—Plane information.

<sib-f13-slot>—F13 SIB information.

<sib-f2-slot>—F2 SIB information.

<sib-l-slot>—LCC SIB information.

<fm-plane-location-information>

Usage
```
<rpc-reply>
  <fm-plane-location-information>
    <fm-plane-location>...</fm-plane-location>
  </fm-plane-location-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fm-plane-location>—No documentation is available yet.

<fm-plane-state-information>

Usage
```
<rpc-reply>
  <fm-plane-state-information>
    <fabric-header>fabric-header</fabric-header>
    <fmp-plane>...</fmp-plane>
  </fm-plane-state-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fabric-header>—Fabric header.

<fmp-plane>—No documentation is available yet.

<fm-sib-ln>

Usage
```
<fm-pfe-ln>
  <fm-sib-ln>
    <sib-slot>sib-slot</sib-slot>
    <sib-fm-state>sib-fm-state</sib-fm-state>
  </fm-sib-ln>
</fm-pfe-ln>
```

Description No documentation is available yet.

Contents <sib-fm-state>—No documentation is available yet.

<sib-slot>—No documentation is available yet.

<fm-sib-state-information>

Usage
```
<multi-routing-engine-item>
  <fm-sib-state-information>
    <fms-sib-ln>...</fms-sib-ln>
  </fm-sib-state-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <fms-sib-ln>—No documentation is available yet.

<fmp-plane>

Usage

```
<fm-plane-state-information>
  <fmp-plane>
    <slot>slot</slot>
    <state>state</state>
    <up-time>up-time</up-time>
    <comment>comment</comment>
    <sib-name>sib-name</sib-name>
    <sib-f13-name>sib-f13-name</sib-f13-name>
    <sib-f2-name>sib-f2-name</sib-f2-name>
    <sibs-slot>sibs-slot</sibs-slot>
    <sibs2-slot>sibs2-slot</sibs2-slot>
    <plane-state>plane-state</plane-state>
    <even-odd>even-odd</even-odd>
    <sibl-slot>sibl-slot</sibl-slot>
    <lcc-slot>lcc-slot</lcc-slot>
    <f13-slot>f13-slot</f13-slot>
    <sibl-link-state>sibl-link-state</sibl-link-state>
    <sgasic-number>sgasic-number</sgasic-number>
    <sgasic-port-number>sgasic-port-number</sgasic-port-number>
    <sgasic-port-link-state>sgasic-port-link-state</sgasic-port-link-state>
    <lcc-sgasic-number>lcc-sgasic-number</lcc-sgasic-number>
    <lcc-sgasic-port-number>lcc-sgasic-port-number</lcc-sgasic-port-number>
    <lcc-sgasic-port-link-state>lcc-sgasic-port-link-state
                    </lcc-sgasic-port-link-state>
    <f2-link-state>f2-link-state</f2-link-state>
    <lcc-pfe-slot>lcc-pfe-slot</lcc-pfe-slot>
    <lcc-fpc-slot>lcc-fpc-slot</lcc-fpc-slot>
    <lcc-pfe-link-state>lcc-pfe-link-state</lcc-pfe-link-state>
    <lcc-sib-link-state>lcc-sib-link-state</lcc-sib-link-state>
  </fmp-plane>
</fm-plane-state-information>
```

Description No documentation is available yet.

Contents

<comment>—No documentation is available yet.

<even-odd>—Even or Odd part of SIB F13.

<f13-slot>—F13 slot number.

<f2-link-state>—F2 link state information.

<lcc-fpc-slot>—FPC slot number.

<lcc-pfe-link-state>—PFE link state information.

<lcc-pfe-slot>—PFE slot number.

<lcc-sgasic-number>—SG number on LCC.

<lcc-sgasic-port-link-state>—SG port link status on LCC.

<lcc-sgasic-port-number>—SG port number on LCC.

<lcc-sib-link-state>—LCC SIB link state information.

<lcc-slot>—LCC slot number.

<plane-state>—Plane state information.

<sgasic-number>—SG number on SFC.

<sgasic-port-link-state>—SG port link status on SFC.

<sgasic-port-number>—SG port number on SFC.

<sib-f13-name>—F13 SIB name.

<sib-f2-name>—F2 SIB name.

<sib-name>—SIB name.

<sibl-link-state>—LCC SIB link state information.

<sibl-slot>—LCC SIB slot number.

<sibs-slot>—Chassis SIB slot number.

<sibs2-slot>—Chassis F2 SIB slot number.

<slot>—No documentation is available yet.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<fms-fpc-ln>

Usage

```
<fms-sib-ln>
  <fms-fpc-ln>
    <slot>slot</slot>
    <fms-pfe-ln>...</fms-pfe-ln>
  </fms-fpc-ln>
</fms-sib-ln>
```

Description No documentation is available yet.

Contents <fms-pfe-ln>—No documentation is available yet.

<slot>—No documentation is available yet.

<fms-lcc-ln>

Usage
```
<fms-sib-ln>
  <fms-lcc-ln>
    <lcc-slot>lcc-slot</lcc-slot>
    <fms-lcc-link-state>fms-lcc-link-state</fms-lcc-link-state>
  </fms-lcc-ln>
</fms-sib-ln>
```

Description No documentation is available yet.

Contents <fms-lcc-link-state>—No documentation is available yet.

<lcc-slot>—LCC slot number.

<fms-pfe-ln>

Usage
```
<fms-fpc-ln>
  <fms-pfe-ln>
    <pfe-slot>pfe-slot</pfe-slot>
    <fms-pfe-link-state>fms-pfe-link-state</fms-pfe-link-state>
  </fms-pfe-ln>
</fms-fpc-ln>
```

Description No documentation is available yet.

Contents <fms-pfe-link-state>—No documentation is available yet.

<pfe-slot>—No documentation is available yet.

<fms-scc-ln>

Usage
```
<fms-sib-ln>
  <fms-scc-ln>
    <fms-scc-link-state>fms-scc-link-state</fms-scc-link-state>
  </fms-scc-ln>
</fms-sib-ln>
```

Description No documentation is available yet.

Contents <fms-scc-link-state>—No documentation is available yet.

<fms-sib-ln>

Usage

```
<fm-sib-state-information>
  <fms-sib-ln>
    <sib-slot>sib-slot</sib-slot>
    <sib-fm-state>sib-fm-state</sib-fm-state>
    <fms-fpc-ln>...</fms-fpc-ln>
    <fms-lcc-ln>...</fms-lcc-ln>
    <fms-scc-ln>...</fms-scc-ln>
  </fms-sib-ln>
</fm-sib-state-information>
```

Description No documentation is available yet.

Contents <fms-fpc-ln>—No documentation is available yet.

<fms-lcc-ln>—No documentation is available yet.

<fms-scc-ln>—No documentation is available yet.

<sib-fm-state>—No documentation is available yet.

<sib-slot>—No documentation is available yet.

<fpc>

Usage

```
<fpc-information | fpc-panel>
  <fpc>
    <slot>slot</slot>
    <logical-slot>logical-slot</logical-slot>
    <state>state</state>
    <description>description</description>
    <error-code>error-code</error-code>
    <temperature>temperature</temperature>
    <cpu-total>cpu-total</cpu-total>
    <cpu-interrupt>cpu-interrupt</cpu-interrupt>
    <cpu-less-info-str>cpu-less-info-str</cpu-less-info-str>
    <memory-dram-size>memory-dram-size</memory-dram-size>
    <memory-sram-size>memory-sram-size</memory-sram-size>
    <memory-sdram-size>memory-sdram-size</memory-sdram-size>
    <memory-rldram-size>memory-rldram-size</memory-rldram-size>
    <memory-ddr-dram-size>memory-ddr-dram-size</memory-ddr-dram-size>
    <memory-notification-sdram-size>memory-notification-sdram-size
                </memory-notification-sdram-size>
    <memory-heap-utilization>memory-heap-utilization</memory-heap-utilization>
    <memory-buffer-utilization>memory-buffer-utilization
                </memory-buffer-utilization>
    <asic-information>asic-information</asic-information>
    <start-time>start-time</start-time>
    <up-time>up-time</up-time>
    <comment>comment</comment>
    <pic>...</pic>
    <pic-detail>...</pic-detail>
    <red-led/>
    <green-led/>
  </fpc>
</fpc-information | fpc-panel>
```

Description No documentation is available yet.

Contents

<asic-information>—No documentation is available yet.

<comment>—No documentation is available yet.

<cpu-interrupt>—Percentage of CPU utilized by interrupt processing.

<cpu-less-info-str>—Flexible PIC Concentrator (FPC) without CPU.

<cpu-total>—Percentage of CPU utilized.

<description>—Description of this component.

<error-code>—Code resulting from major or minor error.

<green-led>—Green LED is lit.

<logical-slot>—No documentation is available yet.

<memory-buffer-utilization>—Percentage of buffer memory utilized.

<memory-ddr-dram-size>—DDR DRAM.

<memory-dram-size>—DRAM.

<memory-heap-utilization>—Percentage of heap memory utilized.

<memory-notification-sdram-size>—Notification SDRAM.

<memory-rldram-size>—RLDRAM.

<memory-sdram-size>—SDRAM.

<memory-sram-size>—SRAM.

<pic>—No documentation is available yet.

<pic-detail>—No documentation is available yet.

<red-led>—Red LED is lit.

<slot>—No documentation is available yet.

<start-time>—Time this component was started.

<state>—Status of the component.

<temperature>—Temperature of the item.

<up-time>—Length of time this component has been operational.

<fpc-feb-connectivity>

Usage

```
<rpc-reply>
  <fpc-feb-connectivity>
    <fpc-feb-connectivity-item>...</fpc-feb-connectivity-item>
  </fpc-feb-connectivity>
</rpc-reply>
```

Description Information about connectivity between FPCs and FEBs.

Contents <fpc-feb-connectivity-item>—FEB connectivity information for an FPC.

<fpc-feb-connectivity-item>

Usage

```
<fpc-feb-connectivity>
  <fpc-feb-connectivity-item>
    <fpc-slot>fpc-slot</fpc-slot>
    <fpc-type>fpc-type</fpc-type>
    <fpc-state>fpc-state</fpc-state>
    <feb-slot>feb-slot</feb-slot>
    <no-feb-slot/>
    <feb-state>feb-state</feb-state>
    <fpc-link-status>fpc-link-status</fpc-link-status>
  </fpc-feb-connectivity-item>
</fpc-feb-connectivity>
```

Description FEB connectivity information for an FPC.

Contents <feb-slot>—FEB slot.

<feb-state>—FEB state.

<fpc-link-status>—FPC link status.

<fpc-slot>—FPC slot.

<fpc-state>—FPC state.

<fpc-type>—FPC type.

<no-feb-slot>—No documentation is available yet.

<fpc-information>

Usage

```
<multi-routing-engine-item | poe>
  <fpc-information>
    <fpc>...</fpc>
    <fpc-slot>fpc-slot</fpc-slot>
    <fpc-power-limit>fpc-power-limit</fpc-power-limit>
    <fpc-priority>fpc-priority</fpc-priority>
    <fpc-power>fpc-power</fpc-power>
    <fpc-status>fpc-status</fpc-status>
    <fpc-firmware-version>fpc-firmware-version</fpc-firmware-version>
  </fpc-information>
</multi-routing-engine-item | poe>
```

Description No documentation is available yet.

Contents <fpc>—No documentation is available yet.

<fpc-firmware-version>—POE firmware version.

<fpc-power>—Total FPC power consumption.

<fpc-power-limit>—FPC power limit.

<fpc-priority>—Priority options.

<fpc-slot>—FPC slot.

<fpc-status>—FPC status.

<fpc-panel>

Usage

```
<front-panel>
  <fpc-panel>
    <fpc>...</fpc>
  </fpc-panel>
</front-panel>
```

Description State of status LEDs on the craft interface for Flexible PIC Concentrators.

Contents <fpc>—No documentation is available yet.

<fpga-registers>

Usage
```
<environment-component-item>
  <fpga-registers>
    <fpga-registers-name>fpga-registers-name</fpga-registers-name>
    <fpga-registers-value>fpga-registers-value</fpga-registers-value>
  </fpga-registers>
</environment-component-item>
```

Description FPGA regiseter values.

Contents <fpga-registers-name>—No documentation is available yet.

<fpga-registers-value>—No documentation is available yet.

<fpga-revision-detail>

Usage
```
<environment-component-item>
  <fpga-revision-detail>
    <fpga-revision-name>fpga-revision-name</fpga-revision-name>
    <fpga-revision-value>fpga-revision-value</fpga-revision-value>
  </fpga-revision-detail>
</environment-component-item>
```

Description FPGA revision in detail.

Contents <fpga-revision-name>—No documentation is available yet.

<fpga-revision-value>—No documentation is available yet.

<front-panel>

Usage
```
<craft-information>
  <front-panel>
    <display-panel>...</display-panel>
    <re-panel>...</re-panel>
    <alarm-indicators>...</alarm-indicators>
    <fpc-panel>...</fpc-panel>
  </front-panel>
</craft-information>
```

Description Information from the craft interface.

Contents <alarm-indicators>—Information about alarms from the craft interface.

<display-panel>—Text currently appearing on the craft interface display.

<fpc-panel>—State of status LEDs on the craft interface for Flexible PIC Concentrators.

<re-panel>—State of status LEDs on the craft interface for one or more Routing Engines. The front panel of each Routing Engine has the same LEDs.

<fru>

Usage

```
<fru-information>
  <fru>
    <slot>slot</slot>
    <state>state</state>
    <up-time>up-time</up-time>
    <comment>comment</comment>
  </fru>
</fru-information>
```

Description No documentation is available yet.

Contents <comment>—No documentation is available yet.

<slot>—No documentation is available yet.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<fru-information>

Usage

```
<rpc-reply>
  <fru-information>
    <fru>...</fru>
  </fru-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fru>—No documentation is available yet.

<ha-led>

Usage

```
<recb-panel>
  <ha-led>
    <red-led/>
    <yellow-led/>
    <amber-led/>
  </ha-led>
</recb-panel>
```

Description State of the HA LED on the craft interface.

Contents <amber-led>—Amber LED is lit.

<red-led>—Red LED is lit.

<yellow-led>—Yellow LED is lit.

<i2c-information>

Usage

```
<chassis | chassis-module | chassis-sub-module>
  <i2c-information>
    <jedec-code>jedec-code</jedec-code>
    <eeprom-version>eeprom-version</eeprom-version>
    <part-number>part-number</part-number>
    <serial-number>serial-number</serial-number>
    <model-number>model-number</model-number>
    <clei-code>clei-code</clei-code>
    <assembly-identifier>assembly-identifier</assembly-identifier>
    <assembly-version>assembly-version</assembly-version>
    <manufacture-date>manufacture-date</manufacture-date>
    <assembly-flags>assembly-flags</assembly-flags>
    <i2c-version>i2c-version</i2c-version>
    <i2c-identifier>i2c-identifier</i2c-identifier>
    <i2c-data>i2c-data</i2c-data>
    <board-information-record>board-information-record</board-information-record>
  </i2c-information>
</chassis | chassis-module | chassis-sub-module>
```

Description No documentation is available yet.

Contents <assembly-flags>—No documentation is available yet.

<assembly-identifier>—No documentation is available yet.

<assembly-version>—No documentation is available yet.

<board-information-record>—Hex dump of board information record.

<clei-code>—Common Language Equipment Identifier code of this component.

<eeprom-version>—No documentation is available yet.

<i2c-data>—Hex dump of I2C data.

<i2c-identifier>—No documentation is available yet.

<i2c-version>—No documentation is available yet.

<jedec-code>—No documentation is available yet.

<manufacture-date>—Date this component was manufactured.

<model-number>—Model number of this component.

<part-number>—Part number of this component.

<serial-number>—Serial number of this component.

<in-service-upgrade-fru-status>

Usage
```
<in-service-upgrade-status>
  <in-service-upgrade-fru-status>
    <fru-name>fru-name</fru-name>
    <fru-status>fru-status</fru-status>
    <fru-reason>fru-reason</fru-reason>
    <in-service-upgrade-pic-status>...</in-service-upgrade-pic-status>
  </in-service-upgrade-fru-status>
</in-service-upgrade-status>
```

Description In-Service Software Upgrade status for chassis.

Contents <fru-name>—No documentation is available yet.

<fru-reason>—No documentation is available yet.

<fru-status>—No documentation is available yet.

<in-service-upgrade-pic-status>—No documentation is available yet.

<in-service-upgrade-pic-status>

Usage
```
<in-service-upgrade-fru-status>
  <in-service-upgrade-pic-status>
    <fru-name>fru-name</fru-name>
    <fru-status>fru-status</fru-status>
    <fru-reason>fru-reason</fru-reason>
  </in-service-upgrade-pic-status>
</in-service-upgrade-fru-status>
```

Description No documentation is available yet.

Contents <fru-name>—No documentation is available yet.

<fru-reason>—No documentation is available yet.

<fru-status>—No documentation is available yet.

<in-service-upgrade-status>

Usage
```
<rpc-reply>
  <in-service-upgrade-status>
    <in-service-upgrade-fru-status>...</in-service-upgrade-fru-status>
  </in-service-upgrade-status>
</rpc-reply>
```

Description No documentation is available yet.

Contents <in-service-upgrade-fru-status>—In-Service Software Upgrade status for chassis.

<interface-information>

Usage

```
<poe>
  <interface-information>
    <interface-name>interface-name</interface-name>
    <interface-enabled>interface-enabled</interface-enabled>
    <interface-status>interface-status</interface-status>
    <interface-power-limit>interface-power-limit</interface-power-limit>
    <interface-priority>interface-priority</interface-priority>
    <interface-power>interface-power</interface-power>
    <interface-class>interface-class</interface-class>
  </interface-information>
</poe>
```

Description No documentation is available yet.

Contents

<interface-class>—Class of powered device.

<interface-enabled>—No documentation is available yet.

<interface-name>—Interface name.

<interface-power>—Power per interface.

<interface-power-limit>—Port power limit.

<interface-priority>—Priority options.

<interface-status>—Interface status.

<interface-information-detail>

Usage

```
<poe>
  <interface-information-detail>
    <interface-name-detail>interface-name-detail</interface-name-detail>
    <interface-enabled-detail>interface-enabled-detail</interface-enabled-detail>
    <interface-status-detail>interface-status-detail</interface-status-detail>
    <interface-power-limit-detail>interface-power-limit-detail
                </interface-power-limit-detail>
    <interface-priority-detail>interface-priority-detail
                </interface-priority-detail>
    <interface-power-detail>interface-power-detail</interface-power-detail>
    <interface-class-detail>interface-class-detail</interface-class-detail>
  </interface-information-detail>
</poe>
```

Description No documentation is available yet.

Contents <interface-class-detail>—Class of Powered Device.

<interface-enabled-detail>—No documentation is available yet.

<interface-name-detail>—Interface name.

<interface-power-detail>—Power per interface.

<interface-power-limit-detail>—Port power limit.

<interface-priority-detail>—Priority options.

<interface-status-detail>—Interface status.

<ioc-npc-connectivity>

Usage

```
<rpc-reply>
  <ioc-npc-connectivity>
    <ioc-npc-connectivity-item>...</ioc-npc-connectivity-item>
  </ioc-npc-connectivity>
</rpc-reply>
```

Description Information about connectivity between IOCs and NPCs.

Contents <ioc-npc-connectivity-item>—NPC connectivity information for an IOC.

<ioc-npc-connectivity-item>

Usage

```
<ioc-npc-connectivity>
  <ioc-npc-connectivity-item>
    <ioc-slot>ioc-slot</ioc-slot>
    <ioc-type>ioc-type</ioc-type>
    <ioc-state>ioc-state</ioc-state>
    <npc-slot>npc-slot</npc-slot>
    <no-npc-slot/>
    <npc-state>npc-state</npc-state>
    <fpc-link-status>fpc-link-status</fpc-link-status>
  </ioc-npc-connectivity-item>
</ioc-npc-connectivity>
```

Description NPC connectivity information for an IOC.

Contents <fpc-link-status>—FPC link status.

<ioc-slot>—No documentation is available yet.

<ioc-state>—IOC state.

<ioc-type>—IOC type.

<no-npc-slot>—No documentation is available yet.

<npc-slot>—No documentation is available yet.

<npc-state>—No documentation is available yet.

<lcc>

Usage

```
<lcc-information>
  <lcc>
    <slot>slot</slot>
    <state>state</state>
    <up-time>up-time</up-time>
    <comment>comment</comment>
  </lcc>
</lcc-information>
```

Description No documentation is available yet.

Contents <comment>—No documentation is available yet.

<slot>—No documentation is available yet.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<lcc-information>

Usage
```
<rpc-reply>
  <lcc-information>
    <lcc>...</lcc>
  </lcc-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lcc>—No documentation is available yet.

<marked-as-failed-source>

Usage
```
<marked-as-failed-source-list>
  <marked-as-failed-source>
    <source-name>source-name</source-name>
  </marked-as-failed-source>
</marked-as-failed-source-list>
```

Description No documentation is available yet.

Contents <source-name>—Name of clock synchronization source.

<marked-as-failed-source-list>

Usage
```
<clock-synchronization>
  <marked-as-failed-source-list>
    <marked-as-failed-source>...</marked-as-failed-source>
  </marked-as-failed-source-list>
</clock-synchronization>
```

Description No documentation is available yet.

Contents <marked-as-failed-source>—No documentation is available yet.

<mcs>

Usage
```
<mcs-panel>
  <mcs>
    <slot>slot</slot>
    <amber-led/>
    <green-led/>
    <blue-led/>
  </mcs>
</mcs-panel>
```

Description State of the status LEDs on the faceplate of a Miscellaneous Control Subsystem.

Contents <amber-led>—Amber LED is lit.

<blue-led>—Blue LED is lit.

<green-led>—Green LED is lit.

<slot>—No documentation is available yet.

<mcs-panel>

Usage
```
<craft-information>
  <mcs-panel>
    <mcs>...</mcs>
  </mcs-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more Miscellaneous Control Subsystems.

Contents <mcs>—State of the status LEDs on the faceplate of a Miscellaneous Control Subsystem.

<multi-routing-engine-item>

Usage

```
<multi-routing-engine-results>
  <multi-routing-engine-item>
    <re-name>re-name</re-name>
    <chassis-location-information>...</chassis-location-information>
    <chassisd-database-memory-usage>...</chassisd-database-memory-usage>
    <chassis-inventory>...</chassis-inventory>
    <environment-information>...</environment-information>
    <fpc-information>...</fpc-information>
    <spmb-information>...</spmb-information>
    <sib-information>...</sib-information>
    <fm-fpc-state-information>...</fm-fpc-state-information>
    <fm-sib-state-information>...</fm-sib-state-information>
    <scb-information>...</scb-information>
    <route-engine-information>...</route-engine-information>
    <firmware-information>...</firmware-information>
    <system-firmware-information>...</system-firmware-information>
    <system-firmware-compatibility-information>...
                </system-firmware-compatibility-information>
  </multi-routing-engine-item>
</multi-routing-engine-results>
```

Description No documentation is available yet.

Contents

<chassis-inventory>—No documentation is available yet.

<chassis-location-information>—No documentation is available yet.

<chassisd-database-memory-usage>—No documentation is available yet.

<environment-information>—No documentation is available yet.

<firmware-information>—Information about component firmware versions.

<fm-fpc-state-information>—No documentation is available yet.

<fm-sib-state-information>—No documentation is available yet.

<fpc-information>—No documentation is available yet.

<re-name>—No documentation is available yet.

<route-engine-information>—No documentation is available yet.

<scb-information>—No documentation is available yet.

<sib-information>—No documentation is available yet.

<spmb-information>—No documentation is available yet.

<system-firmware-compatibility-information>—Compatibility information about installed firmware version & JFirmware.

<system-firmware-information>—Information about component firmware versions.

<multi-routing-engine-results>

Usage
```
<rpc-reply>
  <multi-routing-engine-results>
    <multi-routing-engine-item>...</multi-routing-engine-item>
  </multi-routing-engine-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multi-routing-engine-item>—No documentation is available yet.

<network-services>

Usage
```
<rpc-reply>
  <network-services>
    <network-services-information>...</network-services-information>
  </network-services>
</rpc-reply>
```

Description No documentation is available yet.

Contents <network-services-information>—No documentation is available yet.

<network-services-information>

Usage
```
<network-services>
  <network-services-information>
    <name>name</name>
  </network-services-information>
</network-services>
```

Description No documentation is available yet.

Contents <name>—Name of this component.

<notification-information>

Usage
```
<poe>
  <notification-information>
    <fpc-number>fpc-number</fpc-number>
    <notification-status>notification-status</notification-status>
  </notification-information>
</poe>
```

Description No documentation is available yet.

Contents <fpc-number>—Virtual-chassis number.

<notification-status>—Notification status.

<*pcg*>

Usage

```
<pcg-panel>
  <pcg>
    <slot>slot</slot>
    <amber-led/>
    <green-led/>
    <blue-led/>
  </pcg>
</pcg-panel>
```

Description State of the status LEDs on the faceplate of a Packet Forwarding Engine Clock Generator.

Contents <amber-led>—Amber LED is lit.

<blue-led>—Blue LED is lit.

<green-led>—Green LED is lit.

<slot>—No documentation is available yet.

<*pcg-frequency*>

Usage

```
<environment-component-item>
  <pcg-frequency>
    <pcg-frequency-setting>pcg-frequency-setting</pcg-frequency-setting>
    <pcg-frequency-measurement>pcg-frequency-measurement
                    </pcg-frequency-measurement>
  </pcg-frequency>
</environment-component-item>
```

Description PCG Frequency.

Contents <pcg-frequency-measurement>—No documentation is available yet.

<pcg-frequency-setting>—No documentation is available yet.

<*pcg-panel*>

Usage

```
<craft-information>
  <pcg-panel>
    <pcg>...</pcg>
  </pcg-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more Packet Forwarding Engine Clock Generators.

Contents <pcg>—State of the status LEDs on the faceplate of a Packet Forwarding Engine Clock Generator.

<pic>

Usage

```
<fpc>
  <pic>
    <pic-slot>pic-slot</pic-slot>
    <pic-type>pic-type</pic-type>
    <pic-state>pic-state</pic-state>
    <comment>comment</comment>
  </pic>
</fpc>
```

Description No documentation is available yet.

Contents <comment>—No documentation is available yet.

<pic-slot>—No documentation is available yet.

<pic-state>—No documentation is available yet.

<pic-type>—No documentation is available yet.

<pic-detail>

Usage

```
<fpc>
  <pic-detail>
    <slot>slot</slot>
    <pic-slot>pic-slot</pic-slot>
    <pic-type>pic-type</pic-type>
    <asic-type>asic-type</asic-type>
    <comment>comment</comment>
    <pic-version>pic-version</pic-version>
    <state>state</state>
    <cpu-total>cpu-total</cpu-total>
    <cpu-interrupt>cpu-interrupt</cpu-interrupt>
    <memory-buffer-utilization>memory-buffer-utilization
                    </memory-buffer-utilization>
    <memory-heap-utilization>memory-heap-utilization</memory-heap-utilization>
    <memory-dram-size>memory-dram-size</memory-dram-size>
    <cpu-sw-version>cpu-sw-version</cpu-sw-version>
    <cpu-rom-version>cpu-rom-version</cpu-rom-version>
    <up-time>up-time</up-time>
    <pic-package>pic-package</pic-package>
    <pic-clock-sync>pic-clock-sync</pic-clock-sync>
    <configured-mode>configured-mode</configured-mode>
    <port-information>...</port-information>
  </pic-detail>
</fpc>
```

Description No documentation is available yet.

Contents <asic-type>—Type of ASIC on the PIC.

<comment>—No documentation is available yet.

<configured-mode>—No documentation is available yet.

<cpu-interrupt>—Percentage of CPU utilized by interrupt processing.

<cpu-rom-version>—PIC ROM version.

<cpu-sw-version>—Version of operating system running on the PIC.

<cpu-total>—Percentage of CPU utilized.

<memory-buffer-utilization>—Percentage of buffer memory utilized.

<memory-dram-size>—DRAM.

<memory-heap-utilization>—Percentage of heap memory utilized.

<pic-clock-sync>—PIC Clock Synchronization.

<pic-package>—No documentation is available yet.

<pic-slot>—No documentation is available yet.

<pic-type>—No documentation is available yet.

<pic-version>—PIC hardware version.

<port-information>—No documentation is available yet.

<slot>—No documentation is available yet.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<poe>

Usage

```
<rpc-reply>
  <poe>
    <interface-information>...</interface-information>
    <interface-information-detail>...</interface-information-detail>
    <notification-information>...</notification-information>
    <controller-information>...</controller-information>
    <telemetries-information>...</telemetries-information>
    <fpc-information>...</fpc-information>
  </poe>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<controller-information>—No documentation is available yet.

<fpc-information>—No documentation is available yet.

<interface-information>—No documentation is available yet.

<interface-information-detail>—No documentation is available yet.

<notification-information>—No documentation is available yet.

<telemetries-information>—No documentation is available yet.

<port>

Usage

```
<port-information>
  <port>
    <port-number>port-number</port-number>
    <cable-type>cable-type</cable-type>
    <fiber-mode>fiber-mode</fiber-mode>
    <sfp-vendor-name>sfp-vendor-name</sfp-vendor-name>
    <sfp-vendor-pno>sfp-vendor-pno</sfp-vendor-pno>
    <wavelength>wavelength</wavelength>
  </port>
</port-information>
```

Description No documentation is available yet.

Contents <cable-type>—Port cable type.

<fiber-mode>—Single or multi-mode.

<port-number>—Port number on the PIC.

<sfp-vendor-name>—SFP vendor name.

<sfp-vendor-pno>—SFP vendor part number.

<wavelength>—Wavelength of the optical transceiver.

<port-information>

Usage

```
<pic-detail>
  <port-information>
    <port>...</port>
  </port-information>
</pic-detail>
```

Description No documentation is available yet.

Contents <port>—No documentation is available yet.

<power-information>

Usage
```
<environment-component-item>
  <power-information>
    <power-title>...</power-title>
    <voltage-title>voltage-title</voltage-title>
    <voltage>...</voltage>
  </power-information>
</environment-component-item>
```

Description No documentation is available yet.

Contents <power-title>—No documentation is available yet.

<voltage>—No documentation is available yet.

<voltage-title>—Title for the display of voltage.

<power-management>

Usage
```
<power-management-information>
  <power-management>
    <power-mgmt-device>power-mgmt-device</power-mgmt-device>
    <power-mgmt-low-power>power-mgmt-low-power</power-mgmt-low-power>
    <power-mgmt-high-power>power-mgmt-high-power</power-mgmt-high-power>
    <power-mgmt-heat>power-mgmt-heat</power-mgmt-heat>
    <power-mgmt-state>power-mgmt-state</power-mgmt-state>
  </power-management>
</power-management-information>
```

Description Information about JSeries Power Management.

Contents <power-mgmt-device>—Type of device.

<power-mgmt-heat>—Heat Rating tokens.

<power-mgmt-high-power>—High power Rating tokens.

<power-mgmt-low-power>—Low power Rating tokens.

<power-mgmt-state>—Ratings exceed Chassis limits or not.

<power-management-information>

Usage
```
<rpc-reply>
  <power-management-information>
    <power-management>...</power-management>
  </power-management-information>
</rpc-reply>
```

Description All inforamtion about JSeries Power Management.

Contents <power-management>—Information about JSeries Power Management.

<power-supply>

Usage

```
<power-supply-panel>
  <power-supply>
    <slot>slot</slot>
    <amber-led/>
    <green-led/>
    <blue-led/>
  </power-supply>
</power-supply-panel>
```

Description State of the status LEDs on the faceplate of a power supply.

Contents <amber-led>—Amber LED is lit.

<blue-led>—Blue LED is lit.

<green-led>—Green LED is lit.

<slot>—No documentation is available yet.

<power-supply-panel>

Usage

```
<craft-information>
  <power-supply-panel>
    <power-supply>...</power-supply>
  </power-supply-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more power supplies.

Contents <power-supply>—State of the status LEDs on the faceplate of a power supply.

<power-title>

Usage

```
<power-information>
  <power-title>
    <power-type>power-type</power-type>
    <power-state>power-state</power-state>
  </power-title>
</power-information>
```

Description No documentation is available yet.

Contents <power-state>—State of power.

<power-type>—Title for the display of power.

<psd>

Usage

```
<psd-information>
  <psd>
    <slot>slot</slot>
    <description>description</description>
    <state>state</state>
    <up-time>up-time</up-time>
    <comment>comment</comment>
  </psd>
</psd-information>
```

Description No documentation is available yet.

Contents <comment>—No documentation is available yet.

<description>—Description of this component.

<slot>—No documentation is available yet.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<psd-information>

Usage

```
<rpc-reply>
  <psd-information>
    <psd>...</psd>
  </psd-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <psd>—No documentation is available yet.

<re>

Usage

```
<re-panel>
  <re>
    <slot>slot</slot>
    <ok-led/>
    <fail-led/>
    <master-led/>
  </re>
</re-panel>
```

Description State of status LEDs on the craft interface for a Routing Engine. The front panel of the Routing Engine has the same LEDs.

Contents <fail-led>—Fail LED is lit.

<master-led>—Master LED is lit.

<ok-led>—OK LED is lit.

<slot>—No documentation is available yet.

<re-panel>

Usage

```
<front-panel>
  <re-panel>
    <re>...</re>
  </re-panel>
</front-panel>
```

Description State of status LEDs on the craft interface for one or more Routing Engines. The front panel of each Routing Engine has the same LEDs.

Contents <re>—State of status LEDs on the craft interface for a Routing Engine. The front panel of the Routing Engine has the same LEDs.

<read-register>

Usage

```
<rpc-reply>
  <read-register>
    <cb-slot>cb-slot</cb-slot>
    <fchip-id>fchip-id</fchip-id>
    <address>address</address>
    <data>data</data>
  </read-register>
</rpc-reply>
```

Description Read switch fabric register.

Contents <address>—No documentation is available yet.

<cb-slot>—No documentation is available yet.

<data>—No documentation is available yet.

<fchip-id>—F-chip id.

<recb-panel>

Usage

```
<craft-information>
  <recb-panel>
    <ha-led>...</ha-led>
    <sfb-led>...</sfb-led>
    <cfm-ok-fail-led>...</cfm-ok-fail-led>
    <cfm-service-led>...</cfm-service-led>
  </recb-panel>
</craft-information>
```

Description Information abour LEDs from the craft interface.

Contents <cfm-ok-fail-led>—State of the CFM Ok/Fail LED on the craft interface.

<cfm-service-led>—State of the CFM Service LED on the craft interface.

<ha-led>—State of the HA LED on the craft interface.

<sfb-led>—State of the SFB LED on the craft interface.

<revision>

Usage

```
<environment-component-item>
  <revision>
    <revision-name>revision-name</revision-name>
    <revision-number>revision-number</revision-number>
  </revision>
</environment-component-item>
```

Description No documentation is available yet.

Contents <revision-name>—Revision Name.

<revision-number>—Revision Number.

<route-engine>

Usage

```
<route-engine-information>
  <route-engine>
    <description>description</description>
    <slot>slot</slot>
    <physical-slot>physical-slot</physical-slot>
    <mastership-state>mastership-state</mastership-state>
    <mastership-priority>mastership-priority</mastership-priority>
    <status>status</status>
    <model>model</model>
    <temperature>temperature</temperature>
    <cpu-temperature>cpu-temperature</cpu-temperature>
    <memory-dram-size>memory-dram-size</memory-dram-size>
    <memory-buffer-utilization>memory-buffer-utilization
                </memory-buffer-utilization>
    <control-plane-cpu-count>control-plane-cpu-count</control-plane-cpu-count>
    <data-plane-cpu-count>data-plane-cpu-count</data-plane-cpu-count>
    <cpu-user>cpu-user</cpu-user>
    <cpu-real-time>cpu-real-time</cpu-real-time>
    <cpu-background>cpu-background</cpu-background>
    <cpu-system>cpu-system</cpu-system>
    <cpu-interrupt>cpu-interrupt</cpu-interrupt>
    <cpu-idle>cpu-idle</cpu-idle>
    <serial-number>serial-number</serial-number>
    <start-time>start-time</start-time>
    <up-time>up-time</up-time>
    <last-reboot-reason>last-reboot-reason</last-reboot-reason>
    <load-average-one>load-average-one</load-average-one>
    <load-average-five>load-average-five</load-average-five>
    <load-average-fifteen>load-average-fifteen</load-average-fifteen>
    <bios-version>bios-version</bios-version>
    <bios-date>bios-date</bios-date>
    <bios-id>bios-id</bios-id>
  </route-engine>
</route-engine-information>
```

Description No documentation is available yet.

Contents <bios-date>—Routing engine BIOS date.

<bios-id>—Routing engine BIOS ID.

<bios-version>—Routing engine BIOS version.

<control-plane-cpu-count>—Display the number of CPUS dedicated for control-plane.

<cpu-background>—Percentage of CPU utilized by background processes.

<cpu-idle>—Percentage of CPU idle time.

<cpu-interrupt>—Percentage of CPU utilized by interrupt processing.

<cpu-real-time>—Percentage of CPU utilized by real-time threads.

<cpu-system>—Percentage of CPU utilized by the kernel.

<cpu-temperature>—No documentation is available yet.

<cpu-user>—Percentage of CPU utilized by user processes.

<data-plane-cpu-count>—Display the number of CPUS dedicated for data-plane.

<description>—Description of this component.

<last-reboot-reason>—Last reboot reason of routinge engine.

<load-average-fifteen>—No documentation is available yet.

<load-average-five>—No documentation is available yet.

<load-average-one>—No documentation is available yet.

<mastership-priority>—Configured priority for mastership on this Routing Engine.

<mastership-state>—Current state of mastership on this Routing Engine.

<memory-buffer-utilization>—Percentage of buffer memory utilized.

<memory-dram-size>—DRAM.

<model>—No documentation is available yet.

<physical-slot>—No documentation is available yet.

<serial-number>—Serial number of this component.

<slot>—No documentation is available yet.

<start-time>—Time this component was started.

<status>—Status of clock synchronization source.

<temperature>—Temperature of the item.

<up-time>—Length of time this component has been operational.

<route-engine-information>

Usage

```
<multi-routing-engine-item>
  <route-engine-information>
    <route-engine>...</route-engine>
  </route-engine-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <route-engine>—No documentation is available yet.

<scb>

Usage

```
<scb-information>
  <scb>
    <slot>slot</slot>
    <state>state</state>
    <failover-count>failover-count</failover-count>
    <reset-count>reset-count</reset-count>
    <activate-count>activate-count</activate-count>
    <temperature>temperature</temperature>
    <intake-temperature>intake-temperature</intake-temperature>
    <exhaust-temperature>exhaust-temperature</exhaust-temperature>
    <exhaust-a-temperature>exhaust-a-temperature</exhaust-a-temperature>
    <exhaust-b-temperature>exhaust-b-temperature</exhaust-b-temperature>
    <spp-temperature>spp-temperature</spp-temperature>
    <spr-temperature>spr-temperature</spr-temperature>
    <cpu-total>cpu-total</cpu-total>
    <cpu-total-ukern>cpu-total-ukern</cpu-total-ukern>
    <cpu-total-rt>cpu-total-rt</cpu-total-rt>
    <cpu-interrupt>cpu-interrupt</cpu-interrupt>
    <memory-dram-size>memory-dram-size</memory-dram-size>
    <memory-sram-size>memory-sram-size</memory-sram-size>
    <memory-rldram-size>memory-rldram-size</memory-rldram-size>
    <memory-ddr-dram-size>memory-ddr-dram-size</memory-ddr-dram-size>
    <memory-heap-utilization>memory-heap-utilization</memory-heap-utilization>
    <memory-buffer-utilization>memory-buffer-utilization
                </memory-buffer-utilization>
    <asic-name>asic-name</asic-name>
    <asic-information>asic-information</asic-information>
    <start-time>start-time</start-time>
    <up-time>up-time</up-time>
    <comment>comment</comment>
  </scb>
</scb-information>
```

Description No documentation is available yet.

Contents <activate-count>—No documentation is available yet.

<asic-information>—No documentation is available yet.

<asic-name>—No documentation is available yet.

<comment>—No documentation is available yet.

<cpu-interrupt>—Percentage of CPU utilized by interrupt processing.

<cpu-total>—Percentage of CPU utilized.

<cpu-total-rt>—No documentation is available yet.

<cpu-total-ukern>—No documentation is available yet.

<exhaust-a-temperature>—Exhaust A temperature.

<exhaust-b-temperature>—Exhaust B temperature.

<exhaust-temperature>—No documentation is available yet.

<failover-count>—No documentation is available yet.

<intake-temperature>—No documentation is available yet.

<memory-buffer-utilization>—Percentage of buffer memory utilized.

<memory-ddr-dram-size>—DDR DRAM.

<memory-dram-size>—DRAM.

<memory-heap-utilization>—Percentage of heap memory utilized.

<memory-rldram-size>—RLDRAM.

<memory-sram-size>—SRAM.

<reset-count>—No documentation is available yet.

<slot>—No documentation is available yet.

<spp-temperature>—No documentation is available yet.

<spr-temperature>—No documentation is available yet.

<start-time>—Time this component was started.

<state>—Status of the component.

<temperature>—Temperature of the item.

<up-time>—Length of time this component has been operational.

<scb-information>

Usage

```
<multi-routing-engine-item>
  <scb-information>
    <scb-type>scb-type</scb-type>
    <scb>...</scb>
  </scb-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <scb>—No documentation is available yet.

<scb-type>—No documentation is available yet.

<scg>

Usage
```
<scg-panel>
  <scg>
    <slot>slot</slot>
    <amber-led/>
    <green-led/>
    <blue-led/>
  </scg>
</scg-panel>
```

Description State of the status LEDs on the faceplate of a SONET Clock Generator.

Contents <amber-led>—Amber LED is lit.

<blue-led>—Blue LED is lit.

<green-led>—Green LED is lit.

<slot>—No documentation is available yet.

<scg-panel>

Usage
```
<craft-information>
  <scg-panel>
    <scg>...</scg>
  </scg-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more SONET ClockGenerators.

Contents <scg>—State of the status LEDs on the faceplate of a SONET Clock Generator.

<sfb-led>

Usage
```
<recb-panel>
  <sfb-led>
    <red-led/>
    <yellow-led/>
    <amber-led/>
    <blink-led/>
  </sfb-led>
</recb-panel>
```

Description State of the SFB LED on the craft interface.

Contents <amber-led>—Amber LED is lit.

<blink-led>—LED is blinking.

<red-led>—Red LED is lit.

<yellow-led>—Yellow LED is lit.

<sfm>

Usage

```
<sfm-panel>
  <sfm>
    <slot>slot</slot>
    <amber-led/>
    <green-led/>
    <blue-led/>
  </sfm>
</sfm-panel>
```

Description State of the status LEDs on the faceplate of a Switching andForwarding Module.

Contents <amber-led>—Amber LED is lit.

<blue-led>—Blue LED is lit.

<green-led>—Green LED is lit.

<slot>—No documentation is available yet.

<sfm-panel>

Usage

```
<craft-information>
  <sfm-panel>
    <sfm>...</sfm>
  </sfm-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more Switching and Forwarding Modules.

Contents <sfm>—State of the status LEDs on the faceplate of a Switching andForwarding Module.

<sib>

Usage

```
<sib-information | sib-panel>
  <sib>
    <slot>slot</slot>
    <slot-type>slot-type</slot-type>
    <state>state</state>
    <sib-type>sib-type</sib-type>
    <up-time>up-time</up-time>
    <comment>comment</comment>
    <ok-led/>
    <fail-led/>
    <active-led/>
  </sib>
</sib-information | sib-panel>
```

Description No documentation is available yet.

Contents <active-led>—Active LED is lit.

<comment>—No documentation is available yet.

<fail-led>—Fail LED is lit.

<ok-led>—OK LED is lit.

<sib-type>—No documentation is available yet.

<slot>—No documentation is available yet.

<slot-type>—No documentation is available yet.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<sib-information>

Usage

```
<multi-routing-engine-item>
  <sib-information>
    <sib>...</sib>
  </sib-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <sib>—No documentation is available yet.

<sib-panel>

Usage

```
<craft-information>
  <sib-panel>
    <sib>...</sib>
  </sib-panel>
</craft-information>
```

Description State of the status LEDs on the faceplate of one or more Switch Interface Boards. Some of the LEDs also appear on the craft interface.

Contents <sib>—No documentation is available yet.

<slave-registers>

Usage

```
<slave-registers-information>
  <slave-registers>
    <slave-registers-name>slave-registers-name</slave-registers-name>
    <slave-registers-value>slave-registers-value</slave-registers-value>
  </slave-registers>
</slave-registers-information>
```

Description Slave register values.

Contents <slave-registers-name>—No documentation is available yet.

<slave-registers-value>—No documentation is available yet.

<slave-registers-information>

Usage

```
<environment-component-item>
  <slave-registers-information>
    <slave-registers-title>slave-registers-title</slave-registers-title>
    <slave-registers>...</slave-registers>
  </slave-registers-information>
</environment-component-item>
```

Description No documentation is available yet.

Contents <slave-registers>—Slave register values.

<slave-registers-title>—Title for the dump of slave registers.

<spmb>

Usage

```
<spmb-information>
  <spmb>
    <slot>slot</slot>
    <state>state</state>
    <cpu-total>cpu-total</cpu-total>
    <cpu-interrupt>cpu-interrupt</cpu-interrupt>
    <memory-heap-utilization>memory-heap-utilization</memory-heap-utilization>
    <memory-buffer-utilization>memory-buffer-utilization
                </memory-buffer-utilization>
    <start-time>start-time</start-time>
    <up-time>up-time</up-time>
  </spmb>
</spmb-information>
```

Description No documentation is available yet.

Contents <cpu-interrupt>—Percentage of CPU utilized by interrupt processing.

<cpu-total>—Percentage of CPU utilized.

<memory-buffer-utilization>—Percentage of buffer memory utilized.

<memory-heap-utilization>—Percentage of heap memory utilized.

<slot>—No documentation is available yet.

<start-time>—Time this component was started.

<state>—Status of the component.

<up-time>—Length of time this component has been operational.

<spmb-information>

Usage

```
<multi-routing-engine-item>
  <spmb-information>
    <spmb>...</spmb>
  </spmb-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <spmb>—No documentation is available yet.

<synchronization-source-list>

Usage

```
<clock-synchronization>
  <synchronization-source-list>
    <current-source>...</current-source>
    <configured-source-list>...</configured-source-list>
  </synchronization-source-list>
</clock-synchronization>
```

Description No documentation is available yet.

Contents <configured-source-list>—No documentation is available yet.

<current-source>—No documentation is available yet.

<system-firmware>

Usage

```
<system-firmware-information>
  <system-firmware>
    <firmware-name>firmware-name</firmware-name>
    <firmware-type>firmware-type</firmware-type>
    <firmware-tag>firmware-tag</firmware-tag>
    <firmware-revision>firmware-revision</firmware-revision>
    <firmware-revision-available>firmware-revision-available
                </firmware-revision-available>
    <firmware-status>firmware-status</firmware-status>
    <system-sub-module-firmware-list>...</system-sub-module-firmware-list>
  </system-firmware>
</system-firmware-information>
```

Description No documentation is available yet.

Contents <firmware-name>—Name of this component.

<firmware-revision>—Firmware version for this component.

<firmware-revision-available>—Firmware version available on disk for this component.

<firmware-status>—Firmware status for this component.

<firmware-tag>—Multiple firmware per FRU delimiter.

<firmware-type>—Type of this component.

<system-sub-module-firmware-list>—No documentation is available yet.

<system-firmware-compatibility>

Usage

```
<system-firmware-compatibility-information>
  <system-firmware-compatibility>
    <firmware-name>firmware-name</firmware-name>
    <firmware-type>firmware-type</firmware-type>
    <firmware-tag>firmware-tag</firmware-tag>
    <firmware-revision>firmware-revision</firmware-revision>
    <firmware-revision-available>firmware-revision-available
                </firmware-revision-available>
    <firmware-status>firmware-status</firmware-status>
    <firmware-action>firmware-action</firmware-action>
    <system-sub-module-firmware-compatibility-list>...
                </system-sub-module-firmware-compatibility-list>
  </system-firmware-compatibility>
</system-firmware-compatibility-information>
```

Description Firmware compatibility information with installed JFirmware.

Contents <firmware-action>—Firmware action required for this component.

<firmware-name>—Name of this component.

<firmware-revision>—Firmware version for this component.

<firmware-revision-available>—Firmware version available on disk for this component.

<firmware-status>—Firmware status for this component.

<firmware-tag>—Multiple firmware per FRU delimiter.

<firmware-type>—Type of this component.

<system-sub-module-firmware-compatibility-list>—No documentation is available yet.

<system-firmware-compatibility-information>

Usage

```
<multi-routing-engine-item>
  <system-firmware-compatibility-information>
    <firmware-version-mismatch>...</firmware-version-mismatch>
    <system-firmware-compatibility>...</system-firmware-compatibility>
  </system-firmware-compatibility-information>
</multi-routing-engine-item>
```

Description Compatibility information about installed firmware version & JFirmware.

Contents <firmware-version-mismatch>—Firmware version mismatch warning.

<system-firmware-compatibility>—Firmware compatibility information with installed JFirmware.

<system-firmware-information>

Usage
```
<multi-routing-engine-item>
  <system-firmware-information>
    <system-firmware>...</system-firmware>
  </system-firmware-information>
</multi-routing-engine-item>
```

Description Information about component firmware versions.

Contents <system-firmware>—No documentation is available yet.

<system-sub-module-firmware>

Usage
```
<system-sub-module-firmware-list>
  <system-sub-module-firmware>
    <firmware-name>firmware-name</firmware-name>
    <firmware-type>firmware-type</firmware-type>
    <firmware-tag>firmware-tag</firmware-tag>
    <firmware-revision>firmware-revision</firmware-revision>
    <firmware-revision-available>firmware-revision-available
                </firmware-revision-available>
    <firmware-status>firmware-status</firmware-status>
  </system-sub-module-firmware>
</system-sub-module-firmware-list>
```

Description Firmware sub module.

Contents <firmware-name>—Name of this component.

<firmware-revision>—Firmware version for this component.

<firmware-revision-available>—Firmware version available on disk for this component.

<firmware-status>—Firmware status for this component.

<firmware-tag>—Multiple firmware per FRU delimiter.

<firmware-type>—Type of this component.

<system-sub-module-firmware-compatibility>

Usage

```
<system-sub-module-firmware-compatibility-list>
  <system-sub-module-firmware-compatibility>
    <firmware-name>firmware-name</firmware-name>
    <firmware-type>firmware-type</firmware-type>
    <firmware-tag>firmware-tag</firmware-tag>
    <firmware-revision>firmware-revision</firmware-revision>
    <firmware-revision-available>firmware-revision-available
                </firmware-revision-available>
    <firmware-status>firmware-status</firmware-status>
    <firmware-action>firmware-action</firmware-action>
  </system-sub-module-firmware-compatibility>
</system-sub-module-firmware-compatibility-list>
```

Description Firmware sub module.

Contents <firmware-action>—Firmware action required for this component.

<firmware-name>—Name of this component.

<firmware-revision>—Firmware version for this component.

<firmware-revision-available>—Firmware version available on disk for this component.

<firmware-status>—Firmware status for this component.

<firmware-tag>—Multiple firmware per FRU delimiter.

<firmware-type>—Type of this component.

<system-sub-module-firmware-compatibility-list>

Usage

```
<system-firmware-compatibility>
  <system-sub-module-firmware-compatibility-list>
    <system-sub-module-firmware-compatibility>...
                </system-sub-module-firmware-compatibility>
  </system-sub-module-firmware-compatibility-list>
</system-firmware-compatibility>
```

Description No documentation is available yet.

Contents <system-sub-module-firmware-compatibility>—Firmware sub module.

<system-sub-module-firmware-list>

Usage

```
<system-firmware>
  <system-sub-module-firmware-list>
    <system-sub-module-firmware>...</system-sub-module-firmware>
  </system-sub-module-firmware-list>
</system-firmware>
```

Description No documentation is available yet.

Contents <system-sub-module-firmware>—Firmware sub module.

<telemetries-information>

Usage

```
<poe>
  <telemetries-information>
    <telemetries-index>telemetries-index</telemetries-index>
    <telemetries-timestamp>telemetries-timestamp</telemetries-timestamp>
    <telemetries-power>telemetries-power</telemetries-power>
    <telemetries-voltage>telemetries-voltage</telemetries-voltage>
  </telemetries-information>
</poe>
```

Description No documentation is available yet.

Contents <telemetries-index>—Serial number.

<telemetries-power>—Power consumption by power device on the interface.

<telemetries-timestamp>—Timestamp of entry.

<telemetries-voltage>—Voltage provided to PD by the interface.

<temperature-reading>

Usage

```
<environment-component-item>
  <temperature-reading>
    <temperature-name>temperature-name</temperature-name>
    <temperature>temperature</temperature>
  </temperature-reading>
</environment-component-item>
```

Description No documentation is available yet.

Contents <temperature>—Temperature of the item.

<temperature-name>—No documentation is available yet.

<temperature-threshold>

Usage

```
<temperature-threshold-information>
  <temperature-threshold>
    <name>name</name>
    <fan-normal-speed>fan-normal-speed</fan-normal-speed>
    <fan-high-speed>fan-high-speed</fan-high-speed>
    <yellow-alarm>yellow-alarm</yellow-alarm>
    <bad-fan-yellow-alarm>bad-fan-yellow-alarm</bad-fan-yellow-alarm>
    <red-alarm>red-alarm</red-alarm>
    <bad-fan-red-alarm>bad-fan-red-alarm</bad-fan-red-alarm>
    <temperature-threshold-information-item>temperature-threshold-information-item
                </temperature-threshold-information-item>
  </temperature-threshold>
</temperature-threshold-information>
```

Description Temperature threshold information for a component on the routing platform.

Contents <bad-fan-red-alarm>—Temperature above which red alarm is raised if one or more fans are bad.

<bad-fan-yellow-alarm>—Temperature above which yellow alarm is raised if one or more fans are bad.

<fan-high-speed>—Temperature above which fans are set to high speed.

<fan-normal-speed>—Temperature above which fans are set to normal speed.

<name>—Name of this component.

<red-alarm>—Temperature above which red alarm is raised.

<temperature-threshold-information-item>—No documentation is available yet.

<yellow-alarm>—Temperature above which yellow alarm is raised.

<temperature-threshold-information>

Usage

```
<rpc-reply>
  <temperature-threshold-information>
    <temperature-threshold>...</temperature-threshold>
  </temperature-threshold-information>
</rpc-reply>
```

Description Information about the temperature threshold settings for components in the routing platform.

Contents <temperature-threshold>—Temperature threshold information for a component on the routing platform.

<voltage>

Usage

```
<power-information>
  <voltage>
    <reference-voltage>reference-voltage</reference-voltage>
    <actual-voltage>actual-voltage</actual-voltage>
  </voltage>
</power-information>
```

Description No documentation is available yet.

Contents <actual-voltage>—Voltage of the item in mVlots.

<reference-voltage>—Voltage of the item in Volts.

<write-register>

Usage

```
<rpc-reply>
  <write-register>
    <cb-slot>cb-slot</cb-slot>
    <fchip-id>fchip-id</fchip-id>
    <address>address</address>
    <data>data</data>
  </write-register>
</rpc-reply>
```

Description Write switch fabric register.

Contents <address>—No documentation is available yet.

<cb-slot>—No documentation is available yet.

<data>—No documentation is available yet.

<fchip-id>—F-chip id.

Summary of Class-of-Service Response Tags

This section lists JUNOS XML tags that contain operational information about class of service. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-cos. To review the DTD for the tags, see "DTD for Class-of-Service Response Tags" on page 2083.

<adaptive-shaper>

Usage

```
<cos-adaptive-shaper-information>
  <adaptive-shaper>
    <adaptive-shaper-name>adaptive-shaper-name</adaptive-shaper-name>
    <table-index>table-index</table-index>
    <trigger-item>...</trigger-item>
  </adaptive-shaper>
</cos-adaptive-shaper-information>
```

Description Class-of-service adaptive shaper.

Contents <adaptive-shaper-name>—Class-of-service adaptive shaper name.

<table-index>—Table index.

<trigger-item>—No documentation is available yet.

<alias-map>

Usage

```
<code-point-map>
  <alias-map>
    <alias-map-item>...</alias-map-item>
  </alias-map>
</code-point-map>
```

Description No documentation is available yet.

Contents <alias-map-item>—No documentation is available yet.

<alias-map-item>

Usage

```
<alias-map>
  <alias-map-item>
    <code-point-bits>code-point-bits</code-point-bits>
    <code-point-alias>code-point-alias</code-point-alias>
  </alias-map-item>
</alias-map>
```

Description No documentation is available yet.

Contents <code-point-alias>—Class-of-service code point alias name.

<code-point-bits>—Class-of-service code point bit sequence.

<channel>

Usage

```
<virtual-channel-group>
  <channel>
    <virtual-channel-name>virtual-channel-name</virtual-channel-name>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
    <channel-shaping-rate>channel-shaping-rate</channel-shaping-rate>
  </channel>
</virtual-channel-group>
```

Description No documentation is available yet.

Contents <channel-shaping-rate>—Class-of-service channel shaping rate.

<scheduler-map-name>—Class-of-service scheduler map name.

<virtual-channel-name>—Class-of-service virtual channel name.

<classifier>

Usage

```
<cos-classifier-information>
  <classifier>
    <classifier-name>classifier-name</classifier-name>
    <code-point-type>code-point-type</code-point-type>
    <table-index>table-index</table-index>
    <classifier-map>...</classifier-map>
  </classifier>
</cos-classifier-information>
```

Description Class-of-service code point classifier.

Contents <classifier-map>—No documentation is available yet.

<classifier-name>—Class-of-service classifier name.

<code-point-type>—Class-of-service code point type.

<table-index>—Table index.

<classifier-map>

Usage

```
<classifier>
  <classifier-map>
    <classifier-map-item>...</classifier-map-item>
  </classifier-map>
</classifier>
```

Description No documentation is available yet.

Contents <classifier-map-item>—No documentation is available yet.

<classifier-map-item>

Usage

```
<classifier-map>
  <classifier-map-item>
    <code-point>code-point</code-point>
    <fc-name>fc-name</fc-name>
    <loss-priority>loss-priority</loss-priority>
  </classifier-map-item>
</classifier-map>
```

Description No documentation is available yet.

Contents <code-point>—Class-of-service code point alias name or bits.

<fc-name>—Class-of-service forwarding class name.

<loss-priority>—Class-of-service loss priority.

<classifier-table>

Usage

```
<cos-classifier-table-information>
  <classifier-table>
    <table-index>table-index</table-index>
    <number-of-entries>number-of-entries</number-of-entries>
    <table-type>table-type</table-type>
    <classifier-table-entry>...</classifier-table-entry>
  </classifier-table>
</cos-classifier-table-information>
```

Description No documentation is available yet.

Contents <classifier-table-entry>—No documentation is available yet.

<number-of-entries>—Number of entries in an output list.

<table-index>—Table index.

<table-type>—Table type.

<classifier-table-entry>

Usage

```
<classifier-table>
  <classifier-table-entry>
    <table-index>table-index</table-index>
    <code-point>code-point</code-point>
    <fc-queue-number>fc-queue-number</fc-queue-number>
    <loss-priority>loss-priority</loss-priority>
  </classifier-table-entry>
</classifier-table>
```

Description No documentation is available yet.

Contents <code-point>—Class-of-service code point alias name or bits.

<fc-queue-number>—Class-of-service forwarding class queue number.

<loss-priority>—Class-of-service loss priority.

<table-index>—Table index.

<classifier-table-map>

Usage

```
<cos-classifier-table-map-information>
  <classifier-table-map>
    <table-index>table-index</table-index>
    <table-type>table-type</table-type>
    <logical-interface>logical-interface</logical-interface>
    <logical-interface-index>logical-interface-index</logical-interface-index>
  </classifier-table-map>
</cos-classifier-table-map-information>
```

Description No documentation is available yet.

Contents <logical-interface>—Logical interface name.

<logical-interface-index>—Logical interface index.

<table-index>—Table index.

<table-type>—Table type.

<cls-md-map>

Usage
```
<cos-multi-destination-information>
  <cls-md-map>
    <classifier-inet-name>classifier-inet-name</classifier-inet-name>
    <classifier-inet-type>classifier-inet-type</classifier-inet-type>
    <classifier-inet-index>classifier-inet-index</classifier-inet-index>
  </cls-md-map>
</cos-multi-destination-information>
```

Description No documentation is available yet.

Contents <classifier-inet-index>—Multi destination inet classifier id.

<classifier-inet-name>—Multi destination inet classifier name.

<classifier-inet-type>—Multi destination inet classifier name .

<code-point-map>

Usage
```
<cos-code-point-map-information>
  <code-point-map>
    <code-point-type>code-point-type</code-point-type>
    <alias-map>...</alias-map>
  </code-point-map>
</cos-code-point-map-information>
```

Description Class-of-service code point alias map.

Contents <alias-map>—No documentation is available yet.

<code-point-type>—Class-of-service code point type.

<cos-adaptive-shaper-information>

Usage
```
<rpc-reply>
  <cos-adaptive-shaper-information>
    <adaptive-shaper>...</adaptive-shaper>
  </cos-adaptive-shaper-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <adaptive-shaper>—Class-of-service adaptive shaper.

<cos-classifier-information>

Usage
```
<cos-information>
  <cos-classifier-information>
    <classifier>...</classifier>
  </cos-classifier-information>
</cos-information>
```

Description No documentation is available yet.

Contents <classifier>—Class-of-service code point classifier.

<cos-classifier-table-information>

Usage
```
<cos-table-information>
  <cos-classifier-table-information>
    <classifier-table>...</classifier-table>
  </cos-classifier-table-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <classifier-table>—No documentation is available yet.

<cos-classifier-table-map-information>

Usage
```
<cos-table-information>
  <cos-classifier-table-map-information>
    <classifier-table-map>...</classifier-table-map>
  </cos-classifier-table-map-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <classifier-table-map>—No documentation is available yet.

<cos-code-point-map-information>

Usage
```
<cos-information>
  <cos-code-point-map-information>
    <code-point-map>...</code-point-map>
  </cos-code-point-map-information>
</cos-information>
```

Description No documentation is available yet.

Contents <code-point-map>—Class-of-service code point alias map.

<cos-drop-profile-information>

Usage
```
<cos-information>
  <cos-drop-profile-information>
    <drop-profile>...</drop-profile>
  </cos-drop-profile-information>
</cos-information>
```

Description No documentation is available yet.

Contents <drop-profile>—Class-of-service drop profile.

<cos-fabric-scheduler-map-information>

Usage
```
<rpc-reply>
  <cos-fabric-scheduler-map-information>
    <fabric-scheduler-map>...</fabric-scheduler-map>
  </cos-fabric-scheduler-map-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fabric-scheduler-map>—No documentation is available yet.

<cos-fabric-scheduler-map-table-information>

Usage
```
<rpc-reply>
  <cos-fabric-scheduler-map-table-information>
    <fabric-scheduler-map-table>...</fabric-scheduler-map-table>
  </cos-fabric-scheduler-map-table-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fabric-scheduler-map-table>—No documentation is available yet.

<cos-forwarding-class-information>

Usage
```
<cos-information>
  <cos-forwarding-class-information>
    <fc-map>...</fc-map>
  </cos-forwarding-class-information>
</cos-information>
```

Description No documentation is available yet.

Contents <fc-map>—Class-of-service forwarding class to queue mapping.

<cos-forwarding-class-map-information>

Usage
```
<cos-information>
  <cos-forwarding-class-map-information>
    <fc-map>...</fc-map>
  </cos-forwarding-class-map-information>
</cos-information>
```

Description No documentation is available yet.

Contents <fc-map>—Class-of-service forwarding class to queue mapping.

<cos-forwarding-class-map-interface-table-information>

Usage
```
<rpc-reply>
  <cos-forwarding-class-map-interface-table-information>
    <forwarding-class-queue-table-map>...</forwarding-class-queue-table-map>
  </cos-forwarding-class-map-interface-table-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <forwarding-class-queue-table-map>—No documentation is available yet.

<cos-forwarding-class-map-table-information>

Usage
```
<rpc-reply>
  <cos-forwarding-class-map-table-information>
    <forwarding-class-queue-table>...</forwarding-class-queue-table>
  </cos-forwarding-class-map-table-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <forwarding-class-queue-table>—No documentation is available yet.

<cos-fragmentation-map-information>

Usage
```
<cos-information>
  <cos-fragmentation-map-information>
    <fragmentation-map>...</fragmentation-map>
  </cos-fragmentation-map-information>
</cos-information>
```

Description No documentation is available yet.

Contents <fragmentation-map>—Class-of-service fragmentation map.

<cos-information>

Usage

```
<rpc-reply>
  <cos-information>
    <cos-forwarding-class-information>...</cos-forwarding-class-information>
    <cos-forwarding-class-map-information>...
                </cos-forwarding-class-map-information>
    <cos-classifier-information>...</cos-classifier-information>
    <cos-loss-priority-map-information>...</cos-loss-priority-map-information>
    <cos-drop-profile-information>...</cos-drop-profile-information>
    <cos-rewrite-information>...</cos-rewrite-information>
    <cos-code-point-map-information>...</cos-code-point-map-information>
    <cos-fragmentation-map-information>...</cos-fragmentation-map-information>
    <cos-translation-table-map-information>...
                </cos-translation-table-map-information>
    <cos-multi-destination-information>...</cos-multi-destination-information>
  </cos-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cos-classifier-information>—No documentation is available yet.

<cos-code-point-map-information>—No documentation is available yet.

<cos-drop-profile-information>—No documentation is available yet.

<cos-forwarding-class-information>—No documentation is available yet.

<cos-forwarding-class-map-information>—No documentation is available yet.

<cos-fragmentation-map-information>—No documentation is available yet.

<cos-loss-priority-map-information>—No documentation is available yet.

<cos-multi-destination-information>—No documentation is available yet.

<cos-rewrite-information>—No documentation is available yet.

<cos-translation-table-map-information>—No documentation is available yet.

<cos-interface-information>

Usage

```
<rpc-reply>
  <cos-interface-information>
    <interface-map>...</interface-map>
  </cos-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-map>—Class-of-service interface mappings.

<cos-interface-set-information>

Usage
```
<rpc-reply>
  <cos-interface-set-information>
    <interface-set-map>...</interface-set-map>
  </cos-interface-set-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-set-map>—No documentation is available yet.

<cos-l2tp-session-information>

Usage
```
<rpc-reply>
  <cos-l2tp-session-information>
    <l2tp-session-map>...</l2tp-session-map>
  </cos-l2tp-session-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2tp-session-map>—Class-of-service L2TP session mappings.

<cos-loss-priority-map-information>

Usage
```
<cos-information>
  <cos-loss-priority-map-information>
    <loss-priority-map>...</loss-priority-map>
  </cos-loss-priority-map-information>
</cos-information>
```

Description No documentation is available yet.

Contents <loss-priority-map>—Class-of-service code point loss priority map.

<cos-loss-priority-map-table-binding-information>

Usage
```
<cos-table-information>
  <cos-loss-priority-map-table-binding-information>
    <loss-priority-map-table-binding>...</loss-priority-map-table-binding>
  </cos-loss-priority-map-table-binding-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <loss-priority-map-table-binding>—No documentation is available yet.

<cos-loss-priority-map-table-information>

Usage
```
<cos-table-information>
  <cos-loss-priority-map-table-information>
    <loss-priority-map-table>...</loss-priority-map-table>
  </cos-loss-priority-map-table-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <loss-priority-map-table>—No documentation is available yet.

<cos-multi-destination-information>

Usage
```
<cos-information>
  <cos-multi-destination-information>
    <sm-md-map>...</sm-md-map>
    <fc-md-map>...</fc-md-map>
    <cls-md-map>...</cls-md-map>
  </cos-multi-destination-information>
</cos-information>
```

Description No documentation is available yet.

Contents <cls-md-map>—No documentation is available yet.

<fc-md-map>—No documentation is available yet.

<sm-md-map>—No documentation is available yet.

<cos-policer-table-map-information>

Usage
```
<cos-table-information>
  <cos-policer-table-map-information>
    <policer-table-map>...</policer-table-map>
  </cos-policer-table-map-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <policer-table-map>—No documentation is available yet.

<cos-red-information>

Usage
```
<cos-table-information>
  <cos-red-information>
    <red>...</red>
  </cos-red-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <red>—No documentation is available yet.

<cos-rewrite-information>

Usage
```
<cos-information>
  <cos-rewrite-information>
    <rewrite>...</rewrite>
  </cos-rewrite-information>
</cos-information>
```

Description No documentation is available yet.

Contents <rewrite>—Class-of-service drop profile.

<cos-rewrite-table-information>

Usage
```
<cos-table-information>
  <cos-rewrite-table-information>
    <rewrite-table>...</rewrite-table>
  </cos-rewrite-table-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <rewrite-table>—No documentation is available yet.

<cos-rewrite-table-map-information>

Usage
```
<cos-table-information>
  <cos-rewrite-table-map-information>
    <rewrite-table-map>...</rewrite-table-map>
  </cos-rewrite-table-map-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <rewrite-table-map>—No documentation is available yet.

<cos-routing-instance-information>

Usage
```
<rpc-reply>
  <cos-routing-instance-information>
    <routing-instance-map>...</routing-instance-map>
  </cos-routing-instance-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <routing-instance-map>—Mapping between class-of-service objects and routing instances.

<cos-scheduler-map-information>

Usage
```
<rpc-reply>
  <cos-scheduler-map-information>
    <scheduler-map>...</scheduler-map>
  </cos-scheduler-map-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <scheduler-map>—Class-of-service scheduler map.

<cos-scheduler-map-table-information>

Usage
```
<cos-table-information>
  <cos-scheduler-map-table-information>
    <policy>...</policy>
  </cos-scheduler-map-table-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <policy>—No documentation is available yet.

<cos-shaper-table-map-information>

Usage
```
<cos-table-information>
  <cos-shaper-table-map-information>
    <shaper-table-map>...</shaper-table-map>
  </cos-shaper-table-map-information>
</cos-table-information>
```

Description No documentation is available yet.

Contents <shaper-table-map>—No documentation is available yet.

<cos-table-information>

Usage

```
<rpc-reply>
  <cos-table-information>
    <cos-classifier-table-information>...</cos-classifier-table-information>
    <cos-classifier-table-map-information>...
                </cos-classifier-table-map-information>
    <cos-loss-priority-map-table-information>...
                </cos-loss-priority-map-table-information>
    <cos-loss-priority-map-table-binding-information>...
                </cos-loss-priority-map-table-binding-information>
    <cos-scheduler-map-table-information>...</cos-scheduler-map-table-information>
    <cos-red-information>...</cos-red-information>
    <cos-rewrite-table-information>...</cos-rewrite-table-information>
    <cos-rewrite-table-map-information>...</cos-rewrite-table-map-information>
    <cos-policer-table-map-information>...</cos-policer-table-map-information>
    <cos-shaper-table-map-information>...</cos-shaper-table-map-information>
  </cos-table-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cos-classifier-table-information>—No documentation is available yet.

<cos-classifier-table-map-information>—No documentation is available yet.

<cos-loss-priority-map-table-binding-information>—No documentation is available yet.

<cos-loss-priority-map-table-information>—No documentation is available yet.

<cos-policer-table-map-information>—No documentation is available yet.

<cos-red-information>—No documentation is available yet.

<cos-rewrite-table-information>—No documentation is available yet.

<cos-rewrite-table-map-information>—No documentation is available yet.

<cos-scheduler-map-table-information>—No documentation is available yet.

<cos-shaper-table-map-information>—No documentation is available yet.

<cos-traffic-control-profile-information>

Usage

```
<rpc-reply>
  <cos-traffic-control-profile-information>
    <traffic-control-profile>...</traffic-control-profile>
  </cos-traffic-control-profile-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <traffic-control-profile>—Information about one or more traffic control profiles.

<cos-translation-table-information>

Usage
```
<rpc-reply>
  <cos-translation-table-information>
    <translation-table>...</translation-table>
  </cos-translation-table-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <translation-table>—Class-of-service code point translation table.

<cos-translation-table-map-information>

Usage
```
<cos-information>
  <cos-translation-table-map-information>
    <translation-table>...</translation-table>
  </cos-translation-table-map-information>
</cos-information>
```

Description No documentation is available yet.

Contents <translation-table>—Class-of-service code point translation table.

<cos-translation-table-mapping-information>

Usage
```
<rpc-reply>
  <cos-translation-table-mapping-information>
    <translation-table-mapping>...</translation-table-mapping>
  </cos-translation-table-mapping-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <translation-table-mapping>—No documentation is available yet.

<cos-virtual-channel-group-information>

Usage
```
<rpc-reply>
  <cos-virtual-channel-group-information>
    <virtual-channel-group>...</virtual-channel-group>
  </cos-virtual-channel-group-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <virtual-channel-group>—Class-of-service virtual channel group.

<cos-virtual-channel-information>

Usage

```
<rpc-reply>
  <cos-virtual-channel-information>
    <virtual-channel>...</virtual-channel>
  </cos-virtual-channel-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <virtual-channel>—Class-of-service virtual channel.

<drop-profile>

Usage

```
<cos-drop-profile-information>
  <drop-profile>
    <profile-name>profile-name</profile-name>
    <profile-type>profile-type</profile-type>
    <table-index>table-index</table-index>
    <profile-map>...</profile-map>
  </drop-profile>
</cos-drop-profile-information>
```

Description Class-of-service drop profile.

Contents <profile-map>—No documentation is available yet.

<profile-name>—Class-of-service drop profile name.

<profile-type>—Class-of-service drop profile type.

<table-index>—Table index.

<drop-statistics>

Usage

```
<fpc-queue-information>
  <drop-statistics>
    <drop-pkts-high>drop-pkts-high</drop-pkts-high>
    <drop-pkts-low>drop-pkts-low</drop-pkts-low>
    <drop-bytes-high>drop-bytes-high</drop-bytes-high>
    <drop-bytes-low>drop-bytes-low</drop-bytes-low>
    <drop-pps-high>drop-pps-high</drop-pps-high>
    <drop-pps-low>drop-pps-low</drop-pps-low>
    <drop-bps-high>drop-bps-high</drop-bps-high>
    <drop-bps-low>drop-bps-low</drop-bps-low>
  </drop-statistics>
</fpc-queue-information>
```

Description Drop statistics.

Contents <drop-bps-high>—Dropped bytes per second count for high-priority queue.

<drop-bps-low>—Dropped bytes per second count for low-priority queue.

<drop-bytes-high>—Dropped byte count for high-priority queue.

<drop-bytes-low>—Dropped byte count for low-priority queue.

<drop-pkts-high>—Dropped packet count for high-priority queue.

<drop-pkts-low>—Dropped packet count for low-priority queue.

<drop-pps-high>—Dropped packets per second count for high-priority queue.

<drop-pps-low>—Dropped packets per second count for low-priority queue.

<fabric-queue-information>

Usage

```
<rpc-reply>
  <fabric-queue-information>
    <fpc-queue-information>...</fpc-queue-information>
  </fabric-queue-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fpc-queue-information>—Show fabric queuing information for an FPC.

<fabric-scheduler>

Usage

```
<fabric-scheduler-map>
  <fabric-scheduler>
    <fabric-scheduler-name>fabric-scheduler-name</fabric-scheduler-name>
    <fabric-scheduler-index>fabric-scheduler-index</fabric-scheduler-index>
    <fabric-scheduler-drop-profile-ln-index>fabric-scheduler-drop-profile-ln-index
            </fabric-scheduler-drop-profile-ln-index>
    <fabric-scheduler-drop-profile-ln>fabric-scheduler-drop-profile-ln
            </fabric-scheduler-drop-profile-ln>
    <fabric-scheduler-drop-profile-lt-index>fabric-scheduler-drop-profile-lt-index
            </fabric-scheduler-drop-profile-lt-index>
    <fabric-scheduler-drop-profile-lt>fabric-scheduler-drop-profile-lt
            </fabric-scheduler-drop-profile-lt>
    <fabric-scheduler-drop-profile-hn-index>fabric-scheduler-drop-profile-hn-index
            </fabric-scheduler-drop-profile-hn-index>
    <fabric-scheduler-drop-profile-hn>fabric-scheduler-drop-profile-hn
            </fabric-scheduler-drop-profile-hn>
    <fabric-scheduler-drop-profile-ht-index>fabric-scheduler-drop-profile-ht-index
            </fabric-scheduler-drop-profile-ht-index>
    <fabric-scheduler-drop-profile-ht>fabric-scheduler-drop-profile-ht
            </fabric-scheduler-drop-profile-ht>
  </fabric-scheduler>
</fabric-scheduler-map>
```

Description No documentation is available yet.

Contents

<fabric-scheduler-drop-profile-hn>—Class-of-service scheduler drop profile high, non-TCP.

<fabric-scheduler-drop-profile-hn-index>—Class-of-service scheduler drop profile index high, non-TCP.

<fabric-scheduler-drop-profile-ht>—Class-of-service scheduler drop profile high, TCP.

<fabric-scheduler-drop-profile-ht-index>—Class-of-service scheduler drop profile index high, TCP.

<fabric-scheduler-drop-profile-ln>—Class-of-service scheduler drop profile low, non-TCP.

<fabric-scheduler-drop-profile-ln-index>—Class-of-service scheduler drop profile index low, non-TCP.

<fabric-scheduler-drop-profile-lt>—Class-of-service scheduler drop profile low, TCP.

<fabric-scheduler-drop-profile-lt-index>—Class-of-service scheduler drop profile index low, TCP.

<fabric-scheduler-index>—Class of service scheduler index.

<fabric-scheduler-name>—Class-of-service scheduler name.

<fabric-scheduler-map>

Usage
```
<cos-fabric-scheduler-map-information>
  <fabric-scheduler-map>
    <fabric-scheduler-priority>fabric-scheduler-priority
                </fabric-scheduler-priority>
    <fabric-scheduler>...</fabric-scheduler>
  </fabric-scheduler-map>
</cos-fabric-scheduler-map-information>
```

Description No documentation is available yet.

Contents <fabric-scheduler>—No documentation is available yet.

<fabric-scheduler-priority>—No documentation is available yet.

<fabric-scheduler-map-table>

Usage
```
<cos-fabric-scheduler-map-table-information>
  <fabric-scheduler-map-table>
    <fabric-scheduler-priority>fabric-scheduler-priority
                </fabric-scheduler-priority>
    <fabric-scheduler-queues>fabric-scheduler-queues</fabric-scheduler-queues>
    <fabric-scheduler-table>...</fabric-scheduler-table>
  </fabric-scheduler-map-table>
</cos-fabric-scheduler-map-table-information>
```

Description No documentation is available yet.

Contents <fabric-scheduler-priority>—No documentation is available yet.

<fabric-scheduler-queues>—No documentation is available yet.

<fabric-scheduler-table>—No documentation is available yet.

<fabric-scheduler-table>

Usage

```
<fabric-scheduler-map-table>
  <fabric-scheduler-table>
    <fabric-scheduler-index>fabric-scheduler-index</fabric-scheduler-index>
    <fabric-scheduler-drop-profile-hn-index>fabric-scheduler-drop-profile-hn-index
          </fabric-scheduler-drop-profile-hn-index>
    <fabric-scheduler-drop-profile-ln-index>fabric-scheduler-drop-profile-ln-index
          </fabric-scheduler-drop-profile-ln-index>
    <fabric-scheduler-drop-profile-ht-index>fabric-scheduler-drop-profile-ht-index
          </fabric-scheduler-drop-profile-ht-index>
    <fabric-scheduler-drop-profile-lt-index>fabric-scheduler-drop-profile-lt-index
          </fabric-scheduler-drop-profile-lt-index>
  </fabric-scheduler-table>
</fabric-scheduler-map-table>
```

Description No documentation is available yet.

Contents <fabric-scheduler-drop-profile-hn-index>—Class-of-service scheduler drop profile index high, non-TCP.

<fabric-scheduler-drop-profile-ht-index>—Class-of-service scheduler drop profile index high, TCP.

<fabric-scheduler-drop-profile-ln-index>—Class-of-service scheduler drop profile index low, non-TCP.

<fabric-scheduler-drop-profile-lt-index>—Class-of-service scheduler drop profile index low, TCP.

<fabric-scheduler-index>—Class of service scheduler index.

<fc-map>

Usage

```
<cos-forwarding-class-information | cos-forwarding-class-map-information>
  <fc-map>
    <fc-map-item>...</fc-map-item>
  </fc-map>
</cos-forwarding-class-information | cos-forwarding-class-map-information>
```

Description Class-of-service forwarding class to queue mapping.

Contents <fc-map-item>—No documentation is available yet.

<fc-map-item>

Usage

```
<fc-map>
  <fc-map-item>
    <fc-name>fc-name</fc-name>
    <fc-number>fc-number</fc-number>
    <fc-queue-number>fc-queue-number</fc-queue-number>
    <fc-rqueue-number>fc-rqueue-number</fc-rqueue-number>
    <fc-priority>fc-priority</fc-priority>
    <fc-policing-priority>fc-policing-priority</fc-policing-priority>
  </fc-map-item>
</fc-map>
```

Description No documentation is available yet.

Contents <fc-name>—Class-of-service forwarding class name.

<fc-number>—Identifier for Class-of-service forwarding class.

<fc-policing-priority>—Class-of-service forwarding class policing priority.

<fc-priority>—Class-of-service forwarding class queue priority.

<fc-queue-number>—Class-of-service forwarding class queue number.

<fc-rqueue-number>—Class-of-service forwarding class restricted queue number.

<fc-md-map>

Usage

```
<cos-multi-destination-information>
  <fc-md-map>
    <fc-name>fc-name</fc-name>
    <fc-queue-number>fc-queue-number</fc-queue-number>
  </fc-md-map>
</cos-multi-destination-information>
```

Description No documentation is available yet.

Contents <fc-name>—Class-of-service forwarding class name.

<fc-queue-number>—Class-of-service forwarding class queue number.

<forwarding-class-queue-table>

Usage
```
<cos-forwarding-class-map-table-information>
  <forwarding-class-queue-table>
    <table-index>table-index</table-index>
    <number-of-entries>number-of-entries</number-of-entries>
    <forwarding-class-queue-table-entry>...</forwarding-class-queue-table-entry>
  </forwarding-class-queue-table>
</cos-forwarding-class-map-table-information>
```

Description No documentation is available yet.

Contents <forwarding-class-queue-table-entry>—No documentation is available yet.

<number-of-entries>—Number of entries in an output list.

<table-index>—Table index.

<forwarding-class-queue-table-entry>

Usage
```
<forwarding-class-queue-table>
  <forwarding-class-queue-table-entry>
    <fc-number>fc-number</fc-number>
    <fc-queue-number>fc-queue-number</fc-queue-number>
    <fc-rqueue-number>fc-rqueue-number</fc-rqueue-number>
  </forwarding-class-queue-table-entry>
</forwarding-class-queue-table>
```

Description No documentation is available yet.

Contents <fc-number>—Identifier for Class-of-service forwarding class.

<fc-queue-number>—Class-of-service forwarding class queue number.

<fc-rqueue-number>—Class-of-service forwarding class restricted queue number.

<forwarding-class-queue-table-map>

Usage
```
<cos-forwarding-class-map-interface-table-information>
  <forwarding-class-queue-table-map>
    <logical-interface>logical-interface</logical-interface>
    <logical-interface-index>logical-interface-index</logical-interface-index>
    <table-index>table-index</table-index>
  </forwarding-class-queue-table-map>
</cos-forwarding-class-map-interface-table-information>
```

Description No documentation is available yet.

Contents <logical-interface>—Logical interface name.

<logical-interface-index>—Logical interface index.

<table-index>—Table index.

<fpc-queue-information>

Usage
```
<fabric-queue-information>
  <fpc-queue-information>
    <dest-fpc-index>dest-fpc-index</dest-fpc-index>
    <src-fpc-index>src-fpc-index</src-fpc-index>
    <total-statistics>...</total-statistics>
    <tx-statistics>...</tx-statistics>
    <drop-statistics>...</drop-statistics>
  </fpc-queue-information>
</fabric-queue-information>
```

Description Show fabric queuing information for an FPC.

Contents <dest-fpc-index>—Destination FPC index.

<drop-statistics>—Drop statistics.

<src-fpc-index>—Source FPC index.

<total-statistics>—Total statistics.

<tx-statistics>—Tx statistics.

<fragment-map>

Usage
```
<fragmentation-map>
  <fragment-map>
    <fc-name>fc-name</fc-name>
    <fragment-threshold>fragment-threshold</fragment-threshold>
    <no-fragmentation/>
    <fragment-multilink-class>fragment-multilink-class</fragment-multilink-class>
  </fragment-map>
</fragmentation-map>
```

Description No documentation is available yet.

Contents <fc-name>—Class-of-service forwarding class name.

<fragment-multilink-class>—Identifier for multilink class.

<fragment-threshold>—Fragmentation threshold.

<no-fragmentation>—Do not fragment packets of this class.

<fragmentation-map>

Usage

```
<cos-fragmentation-map-information>
  <fragmentation-map>
    <fragmentation-map-name>fragmentation-map-name</fragmentation-map-name>
    <fragmentation-map-index>fragmentation-map-index</fragmentation-map-index>
    <fragment-map>...</fragment-map>
  </fragmentation-map>
</cos-fragmentation-map-information>
```

Description Class-of-service fragmentation map.

Contents <fragment-map>—No documentation is available yet.

<fragmentation-map-index>—Index number for Class-of-service fragmentation map.

<fragmentation-map-name>—Class-of-service fragmentation map name.

<i-logical-map>

Usage

```
<interface-map | routing-instance-map>
  <i-logical-map>
    <i-logical-name>i-logical-name</i-logical-name>
    <i-logical-index>i-logical-index</i-logical-index>
    <i-logical-objects>...</i-logical-objects>
    <policer-bandwidth>policer-bandwidth</policer-bandwidth>
    <policer-burst>policer-burst</policer-burst>
    <shaper-bandwidth>shaper-bandwidth</shaper-bandwidth>
    <shaper-burst>shaper-burst</shaper-burst>
    <shaping-rate>shaping-rate</shaping-rate>
    <burst-size>burst-size</burst-size>
    <input-shaping-rate>input-shaping-rate</input-shaping-rate>
    <input-burst-size>input-burst-size</input-burst-size>
    <adjusting-application-name>adjusting-application-name
                </adjusting-application-name>
    <adjustment-type>adjustment-type</adjustment-type>
    <configured-shaping-rate>configured-shaping-rate</configured-shaping-rate>
    <adjustment-value>adjustment-value</adjustment-value>
  </i-logical-map>
</interface-map | routing-instance-map>
```

Description No documentation is available yet.

Contents <adjusting-application-name>—The name of the application performing the rate adjustment.

<adjustment-type>—Class-of-service rate adjustment type.

<adjustment-value>—Class-of-service adjusted shaping rate value.

<burst-size>—Class-of-service logical interface shaping burst.

<configured-shaping-rate>—Class-of-service configured shaping rate.

<i-logical-index>—Class-of-service logical interface index.

<i-logical-name>—Class-of-service logical interface name.

<i-logical-objects>—Class-of-service logical interface mappings.

<input-burst-size>—Class-of-service logical interface input shaping burst.

<input-shaping-rate>—Class-of-service input shaping rate.

<policer-bandwidth>—Class-of-service logical interface policer bandwidth.

<policer-burst>—Class-of-service logical interface policer burst.

<shaper-bandwidth>—Class-of-service logical interface shaper bandwidth.

<shaper-burst>—Class-of-service logical interface shaper burst.

<shaping-rate>—Class-of-service shaping rate.

<i-logical-objects>

Usage

```
<i-logical-map>
  <i-logical-objects>
    <i-logical-object-type>i-logical-object-type</i-logical-object-type>
    <i-logical-object-name>i-logical-object-name</i-logical-object-name>
    <i-logical-object-subtype>i-logical-object-subtype</i-logical-object-subtype>
    <i-logical-object-index>i-logical-object-index</i-logical-object-index>
  </i-logical-objects>
</i-logical-map>
```

Description Class-of-service logical interface mappings.

Contents <i-logical-object-index>—Class-of-service logical interface object index.

<i-logical-object-name>—Class-of-service logical interface object name.

<i-logical-object-subtype>—Class-of-service logical interface object subtype.

<i-logical-object-type>—Class-of-service logical interface object type.

<interface-map>

Usage

```
<cos-interface-information>
  <interface-map>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
    <interface-queues-supported>interface-queues-supported
            </interface-queues-supported>
    <interface-queues-in-use>interface-queues-in-use</interface-queues-in-use>
    <interface-shaping-rate>interface-shaping-rate</interface-shaping-rate>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
    <scheduler-map-index>scheduler-map-index</scheduler-map-index>
    <interface-input-shaping-rate>interface-input-shaping-rate
            </interface-input-shaping-rate>

<input-scheduler-map-name>input-scheduler-map-name</input-scheduler-map-name>
    <input-scheduler-map-index>input-scheduler-map-index
            </input-scheduler-map-index>
    <chassis-scheduler-map-name>chassis-scheduler-map-name
            </chassis-scheduler-map-name>
    <chassis-scheduler-map-index>chassis-scheduler-map-index
            </chassis-scheduler-map-index>
    <input-traffic-control-profile-name>input-traffic-control-profile-name
            </input-traffic-control-profile-name>
    <input-traffic-control-profile-index>input-traffic-control-profile-index
            </input-traffic-control-profile-index>
    <output-traffic-control-profile-name>output-traffic-control-profile-name
            </output-traffic-control-profile-name>
    <output-traffic-control-profile-index>output-traffic-control-profile-index
            </output-traffic-control-profile-index>
    <i-logical-map>...</i-logical-map>
  </interface-map>
</cos-interface-information>
```

Description Class-of-service interface mappings.

Contents

<chassis-scheduler-map-index>—Index number for Class-of-service chassis scheduler map.

<chassis-scheduler-map-name>—Class-of-service chassis scheduler map name.

<i-logical-map>—No documentation is available yet.

<input-scheduler-map-index>—Index number for Class-of-service input scheduler map.

<input-scheduler-map-name>—Class-of-service input scheduler map name.

<input-traffic-control-profile-index>—Index number for Class-of-service input traffic control profile.

<input-traffic-control-profile-name>—Class-of-service input traffic control profile name.

<interface-index>—Class-of-service interface index.

<interface-input-shaping-rate>—Class-of-service interface input shaping rate.

<interface-name>—Class-of-service interface name.

<interface-queues-in-use>—Number of queues in use on this interface.

<interface-queues-supported>—Number of queues supported on this interface.

<interface-shaping-rate>—Class-of-service interface shaping rate.

<output-traffic-control-profile-index>—Index number for Class-of-service output traffic control profile.

<output-traffic-control-profile-name>—Class-of-service output traffic control profile name.

<scheduler-map-index>—Class-of-service scheduler map index.

<scheduler-map-name>—Class-of-service scheduler map name.

<interface-set-map>

Usage

```
<cos-interface-set-information>
  <interface-set-map>
    <interface-set-name>interface-set-name</interface-set-name>
    <interface-set-index>interface-set-index</interface-set-index>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
    <interface-queues-supported>interface-queues-supported
            </interface-queues-supported>
    <interface-queues-in-use>interface-queues-in-use</interface-queues-in-use>
    <output-traffic-control-profile-name>output-traffic-control-profile-name
            </output-traffic-control-profile-name>
    <output-traffic-control-profile-index>output-traffic-control-profile-index
            </output-traffic-control-profile-index>
    <input-traffic-control-profile-name>input-traffic-control-profile-name
            </input-traffic-control-profile-name>
    <input-traffic-control-profile-index>input-traffic-control-profile-index
            </input-traffic-control-profile-index>
    <adjusting-application-name>adjusting-application-name
            </adjusting-application-name>
    <adjustment-type>adjustment-type</adjustment-type>
    <configured-shaping-rate>configured-shaping-rate</configured-shaping-rate>
    <adjustment-value>adjustment-value</adjustment-value>
  </interface-set-map>
</cos-interface-set-information>
```

Description No documentation is available yet.

Contents

<adjusting-application-name>—The name of the application performing the rate adjustment.

<adjustment-type>—Class-of-service rate adjustment type.

<adjustment-value>—Class-of-service adjusted shaping rate value.

<configured-shaping-rate>—Class-of-service configured shaping rate.

<input-traffic-control-profile-index>—Index number for Class-of-service input traffic control profile.

<input-traffic-control-profile-name>—Class-of-service input traffic control profile name.

<interface-index>—Class-of-service interface index.

<interface-name>—Class-of-service interface name.

<interface-queues-in-use>—Number of queues in use on this interface.

<interface-queues-supported>—Number of queues supported on this interface.

<interface-set-index>—Class-of-service logical interface index.

<interface-set-name>—Class-of-service interface-set name.

<output-traffic-control-profile-index>—Index number for Class-of-service output traffic control profile.

<output-traffic-control-profile-name>—Class-of-service output traffic control profile name.

<l2tp-session-map>

Usage

```
<cos-l2tp-session-information>
  <l2tp-session-map>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
    <interface-queues-supported>interface-queues-supported
            </interface-queues-supported>
    <interface-queues-in-use>interface-queues-in-use</interface-queues-in-use>
    <l2tp-session-username>l2tp-session-username</l2tp-session-username>
    <l2tp-session-index>l2tp-session-index</l2tp-session-index>
    <traffic-control-profile-name>traffic-control-profile-name
            </traffic-control-profile-name>
    <traffic-control-profile-index>traffic-control-profile-index
            </traffic-control-profile-index>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
    <scheduler-map-index>scheduler-map-index</scheduler-map-index>
    <shaping-rate>shaping-rate</shaping-rate>
    <guaranteed-rate>guaranteed-rate</guaranteed-rate>
    <delay-buffer-rate>delay-buffer-rate</delay-buffer-rate>
    <encapsulation-overhead>encapsulation-overhead</encapsulation-overhead>
    <cell-overhead>cell-overhead</cell-overhead>
  </l2tp-session-map>
</cos-l2tp-session-information>
```

Description Class-of-service L2TP session mappings.

Contents

<cell-overhead>—Class-of-service Cell Overhead.

<delay-buffer-rate>—Class-of-service delay buffer rate.

<encapsulation-overhead>—Class-of-service Encapsulation Overhead.

<guaranteed-rate>—Class-of-service guaranteed rate.

<interface-index>—Class-of-service interface index.

<interface-name>—Class-of-service interface name.

<interface-queues-in-use>—Number of queues in use on this interface.

<interface-queues-supported>—Number of queues supported on this interface.

<l2tp-session-index>—Class-of-service session index.

<l2tp-session-username>—Class-of-service session username.

<scheduler-map-index>—Class-of-service scheduler map index.

<scheduler-map-name>—Class-of-service scheduler map name.

<shaping-rate>—Class-of-service shaping rate.

<traffic-control-profile-index>—Index number for Class-of-service traffic control profile.

<traffic-control-profile-name>—Class-of-service traffic control profile name.

<loss-priority-map>

Usage

```
<cos-loss-priority-map-information>
  <loss-priority-map>
    <loss-priority-map-name>loss-priority-map-name</loss-priority-map-name>
    <code-point-type>code-point-type</code-point-type>
    <table-index>table-index</table-index>
    <loss-priority-map-table>...</loss-priority-map-table>
  </loss-priority-map>
</cos-loss-priority-map-information>
```

Description Class-of-service code point loss priority map.

Contents <code-point-type>—Class-of-service code point type.

<loss-priority-map-name>—Name of class-of-service loss priority map.

<loss-priority-map-table>—No documentation is available yet.

<table-index>—Table index.

<loss-priority-map-item>

Usage

```
<loss-priority-map-table>
  <loss-priority-map-item>
    <code-point>code-point</code-point>
    <loss-priority>loss-priority</loss-priority>
  </loss-priority-map-item>
</loss-priority-map-table>
```

Description No documentation is available yet.

Contents <code-point>—Class-of-service code point alias name or bits.

<loss-priority>—Class-of-service loss priority.

<loss-priority-map-table>

Usage

```
<loss-priority-map | cos-loss-priority-map-table-information>
  <loss-priority-map-table>
    <loss-priority-map-item>...</loss-priority-map-item>
    <table-index>table-index</table-index>
    <number-of-entries>number-of-entries</number-of-entries>
    <table-type>table-type</table-type>
    <loss-priority-map-table-entry>...</loss-priority-map-table-entry>
  </loss-priority-map-table>
</loss-priority-map | cos-loss-priority-map-table-information>
```

Description No documentation is available yet.

Contents <loss-priority-map-item>—No documentation is available yet.

<loss-priority-map-table-entry>—No documentation is available yet.

<number-of-entries>—Number of entries in an output list.

<table-index>—Table index.

<table-type>—Table type.

<loss-priority-map-table-binding>

Usage

```
<cos-loss-priority-map-table-binding-information>
  <loss-priority-map-table-binding>
    <table-index>table-index</table-index>
    <table-type>table-type</table-type>
    <logical-interface>logical-interface</logical-interface>
    <logical-interface-index>logical-interface-index</logical-interface-index>
  </loss-priority-map-table-binding>
</cos-loss-priority-map-table-binding-information>
```

Description No documentation is available yet.

Contents <logical-interface>—Logical interface name.

<logical-interface-index>—Logical interface index.

<table-index>—Table index.

<table-type>—Table type.

<loss-priority-map-table-entry>

Usage

```
<loss-priority-map-table>
  <loss-priority-map-table-entry>
    <table-index>table-index</table-index>
    <code-point>code-point</code-point>
    <loss-priority>loss-priority</loss-priority>
  </loss-priority-map-table-entry>
</loss-priority-map-table>
```

Description No documentation is available yet.

Contents <code-point>—Class-of-service code point alias name or bits.

<loss-priority>—Class-of-service loss priority.

<table-index>—Table index.

<policer-table-map>

Usage

```
<cos-policer-table-map-information>
  <policer-table-map>
    <p-interface>p-interface</p-interface>
    <p-interface-index>p-interface-index</p-interface-index>
    <policer-bandwidth>policer-bandwidth</policer-bandwidth>
    <policer-burst>policer-burst</policer-burst>
  </policer-table-map>
</cos-policer-table-map-information>
```

Description No documentation is available yet.

Contents <p-interface>—No documentation is available yet.

<p-interface-index>—No documentation is available yet.

<policer-bandwidth>—Class-of-service logical interface policer bandwidth.

<policer-burst>—Class-of-service logical interface policer burst.

<policy>

Usage

```
<cos-scheduler-map-table-information>
  <policy>
    <interface>interface</interface>
    <interface-index>interface-index</interface-index>
    <policy-index>policy-index</policy-index>
    <policy-type>policy-type</policy-type>
    <policy-number-of-queues>policy-number-of-queues</policy-number-of-queues>
    <traffic-control-profile-name>traffic-control-profile-name
                </traffic-control-profile-name>
    <traffic-control-profile-index>traffic-control-profile-index
                </traffic-control-profile-index>
    <policy-entry>...</policy-entry>
  </policy>
</cos-scheduler-map-table-information>
```

Description No documentation is available yet.

Contents

<interface>—No documentation is available yet.

<interface-index>—Class-of-service interface index.

<policy-entry>—No documentation is available yet.

<policy-index>—No documentation is available yet.

<policy-number-of-queues>—Number of queues in this policy.

<policy-type>—No documentation is available yet.

<traffic-control-profile-index>—Index number for Class-of-service traffic control profile.

<traffic-control-profile-name>—Class-of-service traffic control profile name.

<policy-entry>

Usage

```
<policy>
  <policy-entry>
    <table-index>table-index</table-index>
    <policy-entry-identifier>policy-entry-identifier</policy-entry-identifier>
    <fc-number>fc-number</fc-number>
    <fc-queue-number>fc-queue-number</fc-queue-number>
    <policy-transmit-rate>policy-transmit-rate</policy-transmit-rate>
    <policy-transmit-rate-percentage>policy-transmit-rate-percentage
            </policy-transmit-rate-percentage>
    <policy-transmit-rate-remainder>policy-transmit-rate-remainder
            </policy-transmit-rate-remainder>
    <policy-buffer-size-temporal>policy-buffer-size-temporal
            </policy-buffer-size-temporal>
    <policy-buffer-size-percentage>policy-buffer-size-percentage
            </policy-buffer-size-percentage>
    <policy-buffer-size-remainder>policy-buffer-size-remainder
            </policy-buffer-size-remainder>
    <policy-scheduling-priority>policy-scheduling-priority
            </policy-scheduling-priority>
    <policy-excess-priority>policy-excess-priority</policy-excess-priority>
    <policy-excess-rate-proportional>policy-excess-rate-proportional
            </policy-excess-rate-proportional>
    <policy-excess-rate-percentage>policy-excess-rate-percentage
            </policy-excess-rate-percentage>
    <policy-shaping-rate>policy-shaping-rate</policy-shaping-rate>
    <policy-shaping-rate-percentage>policy-shaping-rate-percentage
            </policy-shaping-rate-percentage>
    <policy-packet-loss-profile>...</policy-packet-loss-profile>
    <policy-exact>policy-exact</policy-exact>
  </policy-entry>
</policy>
```

Description No documentation is available yet.

Contents

<fc-number>—Identifier for Class-of-service forwarding class.

<fc-queue-number>—Class-of-service forwarding class queue number.

<policy-buffer-size-percentage>—Buffer size percentage.

<policy-buffer-size-remainder>—Buffer size is remainder.

<policy-buffer-size-temporal>—Buffer size in units of time.

<policy-entry-identifier>—Policy entry ID number.

<policy-exact>—Policy is exact Boolean.

<policy-excess-priority>—Excess priority.

<policy-excess-rate-percentage>—Excess rate as percentage.

<policy-excess-rate-proportional>—Excess rate as proportion.

<policy-packet-loss-profile>—No documentation is available yet.

<policy-scheduling-priority>—Scheduling priority.

<policy-shaping-rate>—Shaping rate.

<policy-shaping-rate-percentage>—Shaping rate as percentage.

<policy-transmit-rate>—Transmit rate.

<policy-transmit-rate-percentage>—Transmit rate percentage.

<policy-transmit-rate-remainder>—Transmit rate is remainder.

<table-index>—Table index.

<policy-packet-loss-profile>

Usage

```
<policy-entry>
  <policy-packet-loss-profile>
    <high-drop-profile-identifier>high-drop-profile-identifier
                </high-drop-profile-identifier>
    <medium-drop-profile-identifier>medium-drop-profile-identifier
                </medium-drop-profile-identifier>
    <low-drop-profile-identifier>low-drop-profile-identifier
                </low-drop-profile-identifier>
    <medium-high-drop-profile-identifier>medium-high-drop-profile-identifier
                </medium-high-drop-profile-identifier>
    <medium-low-drop-profile-identifier>medium-low-drop-profile-identifier
                </medium-low-drop-profile-identifier>
    <tcp-high-drop-profile-identifier>tcp-high-drop-profile-identifier
                </tcp-high-drop-profile-identifier>
    <tcp-low-drop-profile-identifier>tcp-low-drop-profile-identifier
                </tcp-low-drop-profile-identifier>
  </policy-packet-loss-profile>
</policy-entry>
```

Description No documentation is available yet.

Contents <high-drop-profile-identifier>—PLP high drop profile ID.

<low-drop-profile-identifier>—PLP low drop profile ID.

<medium-drop-profile-identifier>—PLP medium drop profile ID.

<medium-high-drop-profile-identifier>—PLP medium-high drop profile ID.

<medium-low-drop-profile-identifier>—PLP medium-low drop profile ID.

<tcp-high-drop-profile-identifier>—TCP PLP high drop profile ID.

<tcp-low-drop-profile-identifier>—TCP PLP low drop profile ID.

<profile-map>

Usage
```
<drop-profile>
  <profile-map>
    <profile-map-item>...</profile-map-item>
  </profile-map>
</drop-profile>
```

Description No documentation is available yet.

Contents <profile-map-item>—No documentation is available yet.

<profile-map-item>

Usage
```
<profile-map>
  <profile-map-item>
    <fill-level>fill-level</fill-level>
    <probability>probability</probability>
  </profile-map-item>
</profile-map>
```

Description No documentation is available yet.

Contents <fill-level>—Class-of-service drop profile fill level value.

<probability>—Class-of-service drop profile probability value.

<red>

Usage
```
<cos-red-information>
  <red>
    <red-drop-profile-identifier>red-drop-profile-identifier
                    </red-drop-profile-identifier>
    <number-of-entries>number-of-entries</number-of-entries>
    <red-entry>...</red-entry>
  </red>
</cos-red-information>
```

Description No documentation is available yet.

Contents <number-of-entries>—Number of entries in an output list.

<red-drop-profile-identifier>—No documentation is available yet.

<red-entry>—No documentation is available yet.

<red-entry>

Usage
```
<red>
  <red-entry>
    <red-entry-index>red-entry-index</red-entry-index>
    <red-fullness>red-fullness</red-fullness>
    <red-drop-probability>red-drop-probability</red-drop-probability>
  </red-entry>
</red>
```

Description No documentation is available yet.

Contents <red-drop-probability>—No documentation is available yet.

<red-entry-index>—No documentation is available yet.

<red-fullness>—No documentation is available yet.

<rewrite>

Usage
```
<cos-rewrite-information>
  <rewrite>
    <rewrite-name>rewrite-name</rewrite-name>
    <code-point-type>code-point-type</code-point-type>
    <table-index>table-index</table-index>
    <rewrite-map>...</rewrite-map>
  </rewrite>
</cos-rewrite-information>
```

Description Class-of-service drop profile.

Contents <code-point-type>—Class-of-service code point type.

<rewrite-map>—No documentation is available yet.

<rewrite-name>—Class-of-service rewrite rule name.

<table-index>—Table index.

<rewrite-map>

Usage
```
<rewrite>
  <rewrite-map>
    <rewrite-map-item>...</rewrite-map-item>
  </rewrite-map>
</rewrite>
```

Description No documentation is available yet.

Contents <rewrite-map-item>—No documentation is available yet.

<rewrite-map-item>

Usage

```
<rewrite-map>
  <rewrite-map-item>
    <code-point>code-point</code-point>
    <fc-name>fc-name</fc-name>
    <loss-priority>loss-priority</loss-priority>
  </rewrite-map-item>
</rewrite-map>
```

Description No documentation is available yet.

Contents <code-point>—Class-of-service code point alias name or bits.

<fc-name>—Class-of-service forwarding class name.

<loss-priority>—Class-of-service loss priority.

<rewrite-table>

Usage

```
<cos-rewrite-table-information>
  <rewrite-table>
    <table-index>table-index</table-index>
    <number-of-entries>number-of-entries</number-of-entries>
    <table-type>table-type</table-type>
    <rewrite-table-entry>...</rewrite-table-entry>
  </rewrite-table>
</cos-rewrite-table-information>
```

Description No documentation is available yet.

Contents <number-of-entries>—Number of entries in an output list.

<rewrite-table-entry>—No documentation is available yet.

<table-index>—Table index.

<table-type>—Table type.

<rewrite-table-entry>

Usage

```
<rewrite-table>
  <rewrite-table-entry>
    <fc-queue-number>fc-queue-number</fc-queue-number>
    <rewrite-low-codepoint>rewrite-low-codepoint</rewrite-low-codepoint>
    <rewrite-low-enable-state>rewrite-low-enable-state</rewrite-low-enable-state>
    <rewrite-high-codepoint>rewrite-high-codepoint</rewrite-high-codepoint>
    <rewrite-high-enable-state>rewrite-high-enable-state
                </rewrite-high-enable-state>

<rewrite-medium-codepoint>rewrite-medium-codepoint</rewrite-medium-codepoint>
    <rewrite-medium-enable-state>rewrite-medium-enable-state
                </rewrite-medium-enable-state>
    <rewrite-medium-low-codepoint>rewrite-medium-low-codepoint
                </rewrite-medium-low-codepoint>
    <rewrite-medium-low-enable-state>rewrite-medium-low-enable-state
                </rewrite-medium-low-enable-state>
    <rewrite-medium-high-codepoint>rewrite-medium-high-codepoint
                </rewrite-medium-high-codepoint>
    <rewrite-medium-high-enable-state>rewrite-medium-high-enable-state
                </rewrite-medium-high-enable-state>
  </rewrite-table-entry>
</rewrite-table>
```

Description No documentation is available yet.

Contents <fc-queue-number>—Class-of-service forwarding class queue number.

<rewrite-high-codepoint>—High loss-priority code point.

<rewrite-high-enable-state>—Rewrite state for loss-priority high.

<rewrite-low-codepoint>—Low loss-priority code point.

<rewrite-low-enable-state>—Rewrite state for loss-priority low.

<rewrite-medium-codepoint>—Medium loss-priority code point.

<rewrite-medium-enable-state>—Rewrite state for loss-priority medium.

<rewrite-medium-high-codepoint>—Medium-high loss-priority code point.

<rewrite-medium-high-enable-state>—Rewrite state for loss-priority medium-high.

<rewrite-medium-low-codepoint>—Medium-low loss-priority code point.

<rewrite-medium-low-enable-state>—Rewrite state for loss-priority medium-low.

<rewrite-table-map>

Usage

```
<cos-rewrite-table-map-information>
  <rewrite-table-map>
    <table-index>table-index</table-index>
    <table-type>table-type</table-type>
    <logical-interface>logical-interface</logical-interface>
    <logical-interface-index>logical-interface-index</logical-interface-index>
  </rewrite-table-map>
</cos-rewrite-table-map-information>
```

Description No documentation is available yet.

Contents <logical-interface>—Logical interface name.

<logical-interface-index>—Logical interface index.

<table-index>—Table index.

<table-type>—Table type.

<routing-instance-map>

Usage

```
<cos-routing-instance-information>
  <routing-instance-map>
    <routing-instance-name>routing-instance-name</routing-instance-name>
    <i-logical-map>...</i-logical-map>
  </routing-instance-map>
</cos-routing-instance-information>
```

Description Mapping between class-of-service objects and routing instances.

Contents <i-logical-map>—No documentation is available yet.

<routing-instance-name>—Name of class-of-service routing instance.

<scheduler>

Usage

```
<scheduler-map>
  <scheduler>
    <fc-name>fc-name</fc-name>
    <scheduler-name>scheduler-name</scheduler-name>
    <scheduler-index>scheduler-index</scheduler-index>
    <scheduler-tx-rate>scheduler-tx-rate</scheduler-tx-rate>
    <scheduler-tx-limit>scheduler-tx-limit</scheduler-tx-limit>
    <scheduler-buffer-size>scheduler-buffer-size</scheduler-buffer-size>
    <scheduler-priority>scheduler-priority</scheduler-priority>
    <scheduler-excess-priority>scheduler-excess-priority
            </scheduler-excess-priority>
    <scheduler-shaping-rate>scheduler-shaping-rate</scheduler-shaping-rate>
    <scheduler-excess-rate>scheduler-excess-rate</scheduler-excess-rate>
    <scheduler-drop-profile-ln-index>scheduler-drop-profile-ln-index
            </scheduler-drop-profile-ln-index>
    <scheduler-drop-profile-ln>scheduler-drop-profile-ln
            </scheduler-drop-profile-ln>
    <scheduler-drop-profile-lt-index>scheduler-drop-profile-lt-index
            </scheduler-drop-profile-lt-index>
    <scheduler-drop-profile-lt>scheduler-drop-profile-lt
            </scheduler-drop-profile-lt>
    <scheduler-drop-profile-hn-index>scheduler-drop-profile-hn-index
            </scheduler-drop-profile-hn-index>
    <scheduler-drop-profile-hn>scheduler-drop-profile-hn
            </scheduler-drop-profile-hn>
    <scheduler-drop-profile-ht-index>scheduler-drop-profile-ht-index
            </scheduler-drop-profile-ht-index>
    <scheduler-drop-profile-ht>scheduler-drop-profile-ht
            </scheduler-drop-profile-ht>
    <scheduler-drop-profile-la-index>scheduler-drop-profile-la-index
            </scheduler-drop-profile-la-index>
    <scheduler-drop-profile-la>scheduler-drop-profile-la
            </scheduler-drop-profile-la>
    <scheduler-drop-profile-mla-index>scheduler-drop-profile-mla-index
            </scheduler-drop-profile-mla-index>
    <scheduler-drop-profile-mla>scheduler-drop-profile-mla
            </scheduler-drop-profile-mla>
    <scheduler-drop-profile-mha-index>scheduler-drop-profile-mha-index
            </scheduler-drop-profile-mha-index>
    <scheduler-drop-profile-mha>scheduler-drop-profile-mha
            </scheduler-drop-profile-mha>
    <scheduler-drop-profile-ma-index>scheduler-drop-profile-ma-index
            </scheduler-drop-profile-ma-index>
    <scheduler-drop-profile-ma>scheduler-drop-profile-ma
            </scheduler-drop-profile-ma>
    <scheduler-drop-profile-ha-index>scheduler-drop-profile-ha-index
            </scheduler-drop-profile-ha-index>
    <scheduler-drop-profile-ha>scheduler-drop-profile-ha
            </scheduler-drop-profile-ha>
  </scheduler>
</scheduler-map>
```

Description

No documentation is available yet.

Contents <fc-name>—Class-of-service forwarding class name.

<scheduler-buffer-size>—Class-of-service scheduler buffer size.

<scheduler-drop-profile-ha>—Class-of-service scheduler drop profile high.

<scheduler-drop-profile-ha-index>—Class-of-service scheduler drop profile index high.

<scheduler-drop-profile-hn>—Class-of-service scheduler drop profile high, non-TCP.

<scheduler-drop-profile-hn-index>—Class-of-service scheduler drop profile index high, non-TCP.

<scheduler-drop-profile-ht>—Class-of-service scheduler drop profile high, TCP.

<scheduler-drop-profile-ht-index>—Class-of-service scheduler drop profile index high, TCP.

<scheduler-drop-profile-la>—Class-of-service scheduler drop profile low.

<scheduler-drop-profile-la-index>—Class-of-service scheduler drop profile index low.

<scheduler-drop-profile-ln>—Class-of-service scheduler drop profile low, non-TCP.

<scheduler-drop-profile-ln-index>—Class-of-service scheduler drop profile index low, non-TCP.

<scheduler-drop-profile-lt>—Class-of-service scheduler drop profile low, TCP.

<scheduler-drop-profile-lt-index>—Class-of-service scheduler drop profile index low, TCP.

<scheduler-drop-profile-ma>—Class-of-service scheduler drop profile medium.

<scheduler-drop-profile-ma-index>—Class-of-service scheduler drop profile index medium.

<scheduler-drop-profile-mha>—Class-of-service scheduler drop profile medium-high.

<scheduler-drop-profile-mha-index>—Class-of-service scheduler drop profile index medium-high.

<scheduler-drop-profile-mla>—Class-of-service scheduler drop profile medium-low.

<scheduler-drop-profile-mla-index>—Class-of-service scheduler drop profile index medium-low.

<scheduler-excess-priority>—Class-of-service scheduler excess priority.

<scheduler-excess-rate>—Class-of-service scheduler excess rate.

<scheduler-index>—Class of service scheduler index.

<scheduler-name>—Class-of-service scheduler name.

<scheduler-priority>—Class-of-service scheduler priority.

<scheduler-shaping-rate>—Class-of-service scheduler shaping rate.

<scheduler-tx-limit>—Class-of-service scheduler transmit limit.

<scheduler-tx-rate>—Class-of-service scheduler transmit rate.

<scheduler-map>

Usage
```
<cos-scheduler-map-information>
  <scheduler-map>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
    <scheduler-map-index>scheduler-map-index</scheduler-map-index>
    <scheduler>...</scheduler>
  </scheduler-map>
</cos-scheduler-map-information>
```

Description Class-of-service scheduler map.

Contents <scheduler>—No documentation is available yet.

<scheduler-map-index>—Class-of-service scheduler map index.

<scheduler-map-name>—Class-of-service scheduler map name.

<shaper-table-map>

Usage
```
<cos-shaper-table-map-information>
  <shaper-table-map>
    <s-interface>s-interface</s-interface>
    <s-interface-index>s-interface-index</s-interface-index>
    <shaper-bandwidth>shaper-bandwidth</shaper-bandwidth>
    <shaper-burst>shaper-burst</shaper-burst>
  </shaper-table-map>
</cos-shaper-table-map-information>
```

Description No documentation is available yet.

Contents <s-interface>—No documentation is available yet.

<s-interface-index>—No documentation is available yet.

<shaper-bandwidth>—Class-of-service logical interface shaper bandwidth.

<shaper-burst>—Class-of-service logical interface shaper burst.

<sm-md-map>

Usage

```
<cos-multi-destination-information>
  <sm-md-map>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
    <scheduler-map-index>scheduler-map-index</scheduler-map-index>
  </sm-md-map>
</cos-multi-destination-information>
```

Description No documentation is available yet.

Contents <scheduler-map-index>—Class-of-service scheduler map index.

<scheduler-map-name>—Class-of-service scheduler map name.

<total-statistics>

Usage

```
<fpc-queue-information>
  <total-statistics>
    <total-pkts-high>total-pkts-high</total-pkts-high>
    <total-pkts-low>total-pkts-low</total-pkts-low>
    <total-bytes-high>total-bytes-high</total-bytes-high>
    <total-bytes-low>total-bytes-low</total-bytes-low>
    <total-pps-high>total-pps-high</total-pps-high>
    <total-pps-low>total-pps-low</total-pps-low>
    <total-bps-high>total-bps-high</total-bps-high>
    <total-bps-low>total-bps-low</total-bps-low>
  </total-statistics>
</fpc-queue-information>
```

Description Total statistics.

Contents <total-bps-high>—Total bytes per second count for high-priority queue.

<total-bps-low>—Total bytes per second count for low-priority queue.

<total-bytes-high>—Total byte count for high-priority queue.

<total-bytes-low>—Total byte count for low-priority queue.

<total-pkts-high>—Total packet count for high-priority queue.

<total-pkts-low>—Total packet count for low-priority queue.

<total-pps-high>—Total packets per second count for high-priority queue.

<total-pps-low>—Total packets per second count for low-priority queue.

<traffic-control-profile>

Usage

```
<cos-traffic-control-profile-information>
  <traffic-control-profile>
    <traffic-control-profile-name>traffic-control-profile-name
                </traffic-control-profile-name>
    <scheduler-map-name>scheduler-map-name</scheduler-map-name>
    <shaping-rate>shaping-rate</shaping-rate>
    <traffic-control-profile-index>traffic-control-profile-index
                </traffic-control-profile-index>
    <traffic-control-profile-instance>...</traffic-control-profile-instance>
    <guaranteed-rate>guaranteed-rate</guaranteed-rate>
    <delay-buffer-rate>delay-buffer-rate</delay-buffer-rate>
    <excess-rate>excess-rate</excess-rate>
  </traffic-control-profile>
</cos-traffic-control-profile-information>
```

Description Information about one or more traffic control profiles.

Contents

<delay-buffer-rate>—Class-of-service delay buffer rate.

<excess-rate>—Class-of-service excess rate.

<guaranteed-rate>—Class-of-service guaranteed rate.

<scheduler-map-name>—Class-of-service scheduler map name.

<shaping-rate>—Class-of-service shaping rate.

<traffic-control-profile-index>—Index number for Class-of-service traffic control profile.

<traffic-control-profile-instance>—Class-of-service traffic control profile instance.

<traffic-control-profile-name>—Class-of-service traffic control profile name.

<traffic-control-profile-instance>

Usage

```
<traffic-control-profile>
  <traffic-control-profile-instance>
    <traffic-control-profile-instance-name>traffic-control-profile-instance-name
                </traffic-control-profile-instance-name>
    <traffic-control-profile-instance-index>traffic-control-profile-instance-index
                </traffic-control-profile-instance-index>
    <instance-reference-count>instance-reference-count</instance-reference-count>
  </traffic-control-profile-instance>
</traffic-control-profile>
```

Description Class-of-service traffic control profile instance.

Contents <instance-reference-count>—Instance reference count.

<traffic-control-profile-instance-index>—Index number for Class-of-service traffic control profile instance.

<traffic-control-profile-instance-name>—Class-of-service traffic control profile instance.

<translation-table>

Usage

```
<cos-translation-table-map-information | cos-translation-table-information>
  <translation-table>
    <translation-table-name>translation-table-name</translation-table-name>
    <translation-table-type>translation-table-type</translation-table-type>
    <table-index>table-index</table-index>
    <translation-table-map>...</translation-table-map>
    <number-of-entries>number-of-entries</number-of-entries>
    <translation-table-entry>...</translation-table-entry>
  </translation-table>
</cos-translation-table-map-information | cos-translation-table-information>
```

Description Class-of-service code point translation table.

Contents <number-of-entries>—Number of entries in an output list.

<table-index>—Table index.

<translation-table-entry>—No documentation is available yet.

<translation-table-map>—No documentation is available yet.

<translation-table-name>—Class-of-service translation table name.

<translation-table-type>—Class-of-service translation table type.

<translation-table-entry>

Usage
```
<translation-table>
  <translation-table-entry>
    <table-index>table-index</table-index>
    <from-code-point>from-code-point</from-code-point>
    <to-code-point>to-code-point</to-code-point>
  </translation-table-entry>
</translation-table>
```

Description No documentation is available yet.

Contents <from-code-point>—Class-of-service code point alias name or bits.

<table-index>—Table index.

<to-code-point>—Class-of-service code point alias name or bits.

<translation-table-map>

Usage
```
<translation-table>
  <translation-table-map>
    <translation-table-map-item>...</translation-table-map-item>
  </translation-table-map>
</translation-table>
```

Description No documentation is available yet.

Contents <translation-table-map-item>—No documentation is available yet.

<translation-table-map-item>

Usage
```
<translation-table-map>
  <translation-table-map-item>
    <from-code-point>from-code-point</from-code-point>
    <to-code-point>to-code-point</to-code-point>
  </translation-table-map-item>
</translation-table-map>
```

Description No documentation is available yet.

Contents <from-code-point>—Class-of-service code point alias name or bits.

<to-code-point>—Class-of-service code point alias name or bits.

<translation-table-mapping>

Usage

```
<cos-translation-table-mapping-information>
  <translation-table-mapping>
    <table-index>table-index</table-index>
    <translation-table-type>translation-table-type</translation-table-type>
    <logical-interface>logical-interface</logical-interface>
    <logical-interface-index>logical-interface-index</logical-interface-index>
  </translation-table-mapping>
</cos-translation-table-mapping-information>
```

Description No documentation is available yet.

Contents <logical-interface>—Logical interface name.

<logical-interface-index>—Logical interface index.

<table-index>—Table index.

<translation-table-type>—Class-of-service translation table type.

<trigger-item>

Usage

```
<adaptive-shaper>
  <trigger-item>
    <trigger-type>trigger-type</trigger-type>
    <adaptive-shaping-rate>adaptive-shaping-rate</adaptive-shaping-rate>
  </trigger-item>
</adaptive-shaper>
```

Description No documentation is available yet.

Contents <adaptive-shaping-rate>—Class-of-service adaptive shaping rate.

<trigger-type>—Class-of-service adaptive shaper trigger type.

<tx-statistics>

Usage

```
<fpc-queue-information>
  <tx-statistics>
    <tx-pkts-high>tx-pkts-high</tx-pkts-high>
    <tx-pkts-low>tx-pkts-low</tx-pkts-low>
    <tx-bytes-high>tx-bytes-high</tx-bytes-high>
    <tx-bytes-low>tx-bytes-low</tx-bytes-low>
    <tx-pps-high>tx-pps-high</tx-pps-high>
    <tx-pps-low>tx-pps-low</tx-pps-low>
    <tx-bps-high>tx-bps-high</tx-bps-high>
    <tx-bps-low>tx-bps-low</tx-bps-low>
  </tx-statistics>
</fpc-queue-information>
```

Description Tx statistics.

Contents <tx-bps-high>—Transmitted bytes per second count for high-priority queue.

<tx-bps-low>—Transmitted bytes per second count for low-priority queue.

<tx-bytes-high>—Transmitted byte count for high-priority queue.

<tx-bytes-low>—Transmitted byte count for low-priority queue.

<tx-pkts-high>—Transmitted packet count for high-priority queue.

<tx-pkts-low>—Transmitted packet count for low-priority queue.

<tx-pps-high>—Transmitted packets per second count for high-priority queue.

<tx-pps-low>—Transmitted packets per second count for low-priority queue.

<virtual-channel>

Usage

```
<cos-virtual-channel-information>
  <virtual-channel>
    <virtual-channel-name>virtual-channel-name</virtual-channel-name>
    <table-index>table-index</table-index>
  </virtual-channel>
</cos-virtual-channel-information>
```

Description Class-of-service virtual channel.

Contents <table-index>—Table index.

<virtual-channel-name>—Class-of-service virtual channel name.

<virtual-channel-group>

Usage

```
<cos-virtual-channel-group-information>
  <virtual-channel-group>
    <virtual-channel-group-name>virtual-channel-group-name
                    </virtual-channel-group-name>
    <table-index>table-index</table-index>
    <channel>...</channel>
  </virtual-channel-group>
</cos-virtual-channel-group-information>
```

Description Class-of-service virtual channel group.

Contents <channel>—No documentation is available yet.

<table-index>—Table index.

<virtual-channel-group-name>—Class-of-service virtual channel group name.

Summary of Database Replication Response Tags

This section lists JUNOS XML tags that contain operational information about data replication. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-database-replication. To review the DTD for the tags, see "DTD for Database Replication Response Tags" on page 2097.

<database-replication-statistics-information>

Usage

```
<rpc-reply>
  <database-replication-statistics-information>
    <dropped-connections-total>dropped-connections-total
                </dropped-connections-total>
    <max-buffer-count>max-buffer-count</max-buffer-count>
    <msg-received-bytes>msg-received-bytes</msg-received-bytes>
    <msgs-received-total>msgs-received-total</msgs-received-total>
    <msg-sent-bytes>msg-sent-bytes</msg-sent-bytes>
    <msgs-sent-total>msgs-sent-total</msgs-sent-total>
    <queue-full-total>queue-full-total</queue-full-total>
    <queue-max-size>queue-max-size</queue-max-size>
  </database-replication-statistics-information>
</rpc-reply>
```

Description Statistics from the database replication.

Contents <dropped-connections-total>—Total number times connection was restarted.

<max-buffer-count>—Maximum number of outstanding buffers.

<msg-received-bytes>—Total number bytes received.

<msg-sent-bytes>—Total number bytes sent.

<msgs-received-total>—Total number messages received.

<msgs-sent-total>—Total number messages sent.

<queue-full-total>—Total number times queue was full.

<queue-max-size>—Maximum size queue reached.

<database-replication-summary-information>

Usage

```
<rpc-reply>
  <database-replication-summary-information>
    <replication-graceful-restart-type>replication-graceful-restart-type
                </replication-graceful-restart-type>
    <replication-mastership-type>replication-mastership-type
                </replication-mastership-type>
    <replication-connection-type>replication-connection-type
                </replication-connection-type>
    <replication-database-type>replication-database-type
                </replication-database-type>
    <replication-queue-type>replication-queue-type</replication-queue-type>
  </database-replication-summary-information>
</rpc-reply>
```

Description General state information about the database replication status.

Contents <replication-connection-type>—Connection status of the database replication.

<replication-database-type>—Synchronizing status of the database replication.

<replication-graceful-restart-type>—Mode of the chassis graceful restart.

<replication-mastership-type>—Mode of the database replication.

<replication-queue-type>—Queue status of the database replication.

Summary of Data Link Switching Response Tags

This section lists JUNOS XML tags that contain operational information about data link switching (DLSw). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dlswd. To review the DTD for the tags, see "DTD for Data Link Switching Response Tags" on page 2099.

<dlsw-capabilities>

Usage

```
<dlsw-capabilities-list>
  <dlsw-capabilities>
    <peer-address>peer-address</peer-address>
    <vendor-id>vendor-id</vendor-id>
    <version-number>version-number</version-number>
    <initial-pacing-window-size>initial-pacing-window-size
                </initial-pacing-window-size>
    <version-string>version-string</version-string>
    <dlsw-capability-strings>dlsw-capability-strings</dlsw-capability-strings>
    <version-string-multi>version-string-multi</version-string-multi>
  </dlsw-capabilities>
</dlsw-capabilities-list>
```

Description No documentation is available yet.

Contents <dlsw-capability-strings>—No documentation is available yet.

<initial-pacing-window-size>—Initial pacing window size.

<peer-address>—Peer address.

<vendor-id>—Vendor ID.

<version-number>—Version number.

<version-string>—Version string.

<version-string-multi>—No documentation is available yet.

<dlsw-capabilities-list>

Usage

```
<rpc-reply>
  <dlsw-capabilities-list>
    <dlsw-capabilities>...</dlsw-capabilities>
  </dlsw-capabilities-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dlsw-capabilities>—No documentation is available yet.

<dlsw-circuit>

Usage

```
<dlsw-circuit-list>
  <dlsw-circuit>
    <local-address>local-address</local-address>
    <lsap>lsap</lsap>
    <remote-address>remote-address</remote-address>
    <dsap>dsap</dsap>
    <circuit-state>circuit-state</circuit-state>
    <peer-address>peer-address</peer-address>
    <circuit-id>circuit-id</circuit-id>
    <circuit-uptime>circuit-uptime</circuit-uptime>
    <current-state-time>current-state-time</current-state-time>
    <max-btu-size>max-btu-size</max-btu-size>
    <circuit-priority>circuit-priority</circuit-priority>
    <dlsw-circuit-statistics>...</dlsw-circuit-statistics>
  </dlsw-circuit>
</dlsw-circuit-list>
```

Description No documentation is available yet.

Contents <circuit-id>—Circuit id.

<circuit-priority>—Circuit priority.

<circuit-state>—Circuit state.

<circuit-uptime>—Uptime for the circuit.

<current-state-time>—Time since current state.

<dlsw-circuit-statistics>—DLSw circuit statistics.

<dsap>—DSAP.

<local-address>—Local address.

<lsap>—LSAP.

<max-btu-size>—Max BTU size.

<peer-address>—Peer address.

<remote-address>—Remote address.

<dlsw-circuit-list>

Usage

```
<rpc-reply>
  <dlsw-circuit-list>
    <dlsw-circuit>...</dlsw-circuit>
  </dlsw-circuit-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dlsw-circuit>—No documentation is available yet.

<dlsw-circuit-statistics>

Usage

```
<dlsw-circuit>
  <dlsw-circuit-statistics>
    <iframes-received>iframes-received</iframes-received>
    <iframes-sent>iframes-sent</iframes-sent>
    <ibytes-received>ibytes-received</ibytes-received>
    <ibytes-sent>ibytes-sent</ibytes-sent>
    <iframes-rejected>iframes-rejected</iframes-rejected>
    <ibytes-rejected>ibytes-rejected</ibytes-rejected>
    <iframes-retransmitted>iframes-retransmitted</iframes-retransmitted>
    <ibytes-retransmitted>ibytes-retransmitted</ibytes-retransmitted>
    <reject-sent>reject-sent</reject-sent>
    <reject-received>reject-received</reject-received>
    <xid-sent>xid-sent</xid-sent>
    <xid-received>xid-received</xid-received>
  </dlsw-circuit-statistics>
</dlsw-circuit>
```

Description DLSw circuit statistics.

Contents <ibytes-received>—Number of bytes received in I-frames.

<ibytes-rejected>—Number of bytes in the rejected I-frames.

<ibytes-retransmitted>—Number of bytes in retransmitted I-frames.

<ibytes-sent>—Number of bytes sent in I-frames.

<iframes-received>—I-frames received.

<iframes-rejected>—I-frames rejected.

<iframes-retransmitted>—I-frames retransmitted.

<iframes-sent>—I-frames sent.

<reject-received>—Reject frames received.

<reject-sent>—Reject frames sent.

<xid-received>—XID frames received.

<xid-sent>—XID frames sent.

<dlsw-peer>

Usage

```
<dlsw-peer-list>
  <dlsw-peer>
    <peer-address>peer-address</peer-address>
    <peer-state>peer-state</peer-state>
    <peer-circuits>peer-circuits</peer-circuits>
    <local-address>local-address</local-address>
    <peer-uptime>peer-uptime</peer-uptime>
    <initial-receive-pacing>initial-receive-pacing</initial-receive-pacing>
    <connection-idle-timeout>connection-idle-timeout</connection-idle-timeout>
    <dlsw-peer-statistics>...</dlsw-peer-statistics>
    <tos-value>tos-value</tos-value>
    <destination-sna-interface>destination-sna-interface
                    </destination-sna-interface>
    <peer-cost>peer-cost</peer-cost>
    <peer-circuit-weight>peer-circuit-weight</peer-circuit-weight>
    <load-balance>load-balance</load-balance>
  </dlsw-peer>
</dlsw-peer-list>
```

Description No documentation is available yet.

Contents <connection-idle-timeout>—No circuits timeout.

<destination-sna-interface>—Name of destination interface for SNA packets.

<dlsw-peer-statistics>—DLSw Peer Statistics.

<initial-receive-pacing>—Size of initial receive pacing window.

<load-balance>—Load balance.

<local-address>—Local address.

<peer-address>—Peer address.

<peer-circuit-weight>—Peer circuit weight.

<peer-circuits>—Number of peer circuits.

<peer-cost>—Peer cost.

<peer-state>—Peer state.

<peer-uptime>—Uptime for peer connection.

<tos-value>—IP Type-of-service value.

<dlsw-peer-list>

Usage

```
<rpc-reply>
  <dlsw-peer-list>
    <dlsw-peer>...</dlsw-peer>
  </dlsw-peer-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dlsw-peer>—No documentation is available yet.

<dlsw-peer-statistics>

Usage

```
<dlsw-peer>
  <dlsw-peer-statistics>
    <packets-received>packets-received</packets-received>
    <packets-sent>packets-sent</packets-sent>
    <bytes-received>bytes-received</bytes-received>
    <bytes-sent>bytes-sent</bytes-sent>
    <control-packets-received>control-packets-received</control-packets-received>
    <control-packets-sent>control-packets-sent</control-packets-sent>
    <canureach-ex-received>canureach-ex-received</canureach-ex-received>
    <canureach-ex-sent>canureach-ex-sent</canureach-ex-sent>
    <icanreach-ex-received>icanreach-ex-received</icanreach-ex-received>
    <icanreach-ex-sent>icanreach-ex-sent</icanreach-ex-sent>
  </dlsw-peer-statistics>
</dlsw-peer>
```

Description DLSw Peer Statistics.

Contents <bytes-received>—Bytes received.

<bytes-sent>—Bytes sent.

<canureach-ex-received>—CANUREACH_ex received.

<canureach-ex-sent>—CANUREACH_ex sent.

<control-packets-received>—Control packets received.

<control-packets-sent>—Control packets sent.

<icanreach-ex-received>—ICANREACH_ex received.

<icanreach-ex-sent>—ICANREACH_ex sent.

<packets-received>—Packets received.

<packets-sent>—Packets sent.

<dlsw-reachability>

Usage

```
<dlsw-reachability-list>
  <dlsw-reachability>
    <mac-index>mac-index</mac-index>
    <mac-address>mac-address</mac-address>
    <mac-location>mac-location</mac-location>
    <remote-dlsw-address>remote-dlsw-address</remote-dlsw-address>
    <dlsw-peer-interface>dlsw-peer-interface</dlsw-peer-interface>
  </dlsw-reachability>
</dlsw-reachability-list>
```

Description No documentation is available yet.

Contents <dlsw-peer-interface>—DLSw peer or interface.

<mac-address>—MAC address.

<mac-index>—MAC index.

<mac-location>—MAC location.

<remote-dlsw-address>—Remote DLSw address.

<dlsw-reachability-list>

Usage

```
<rpc-reply>
  <dlsw-reachability-list>
    <dlsw-reachability>...</dlsw-reachability>
  </dlsw-reachability-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dlsw-reachability>—No documentation is available yet.

<llc2>

Usage

```
<llc2-redundancy-track-interface | llc2-redundancy-track-dlsw-peer |
llc2-redundancy-track-dlsw-destination | llc2-redundancy-mac-translation |
llc2-redundancy | llc2-redundancy-interface-statistics>
  <llc2>
    <interface>interface</interface>
    <track-peer>track-peer</track-peer>
    <track-destination>track-destination</track-destination>
    <track-interface>track-interface</track-interface>
    <unit>unit</unit>
    <group>group</group>
    <interface-state>interface-state</interface-state>
    <state>state</state>
    <track-interface-state>track-interface-state</track-interface-state>
    <track-interface-cost>track-interface-cost</track-interface-cost>
    <track-peer-state>track-peer-state</track-peer-state>
    <track-peer-cost>track-peer-cost</track-peer-cost>
    <track-destination-state>track-destination-state</track-destination-state>
    <track-destination-cost>track-destination-cost</track-destination-cost>
    <group-configured-priority>group-configured-priority
                </group-configured-priority>
    <group-run-priority>group-run-priority</group-run-priority>
    <local-mac>local-mac</local-mac>
    <remote-mac>remote-mac</remote-mac>
    <ifl-index>ifl-index</ifl-index>
    <advertise-interval>advertise-interval</advertise-interval>
    <advertise-timer>advertise-timer</advertise-timer>
    <preempt>preempt</preempt>
    <master-router-uptime>master-router-uptime</master-router-uptime>
    <tracking>tracking</tracking>
    <interface-ads-sent>interface-ads-sent</interface-ads-sent>
    <interface-ads-received>interface-ads-received</interface-ads-received>
    <interface-bad-ttl-value-received>interface-bad-ttl-value-received
                </interface-bad-ttl-value-received>
    <interface-bad-version-received>interface-bad-version-received
                </interface-bad-version-received>
    <interface-bad-pdu-type-received>interface-bad-pdu-type-received
                </interface-bad-pdu-type-received>
    <interface-bad-checksum-received>interface-bad-checksum-received
                </interface-bad-checksum-received>
  </llc2>
</llc2-redundancy-track-interface | llc2-redundancy-track-dlsw-peer |
llc2-redundancy-track-dlsw-destination | llc2-redundancy-mac-translation |
llc2-redundancy | llc2-redundancy-interface-statistics>
```

Description No documentation is available yet.

Contents <advertise-interval>—Advertisement interval for LLC2 redundancy group.

<advertise-timer>—Advertisement timer for LLC2 redundancy group.

<group>—LLC2 redundancy group number.

<group-configured-priority>—Configured priority of LLC2 redundancy group.

<group-run-priority>—Run priority of LLC2 redundancy group.

<ifl-index>—LLC2 logical interface index index number.

<interface>—Name of LLC2 Interface.

<interface-ads-received>—Number of LLC2 redundancy interface advertisements received.

<interface-ads-sent>—Number of LLC2 redundancy interface advertisements sent.

<interface-bad-checksum-received>—Number of bad checksum received for LLC2 redundancy interface.

<interface-bad-pdu-type-received>—Number of bad PDU types received for LLC2 redundancy.

<interface-bad-ttl-value-received>—Number of bad time-to-live values received for LLC2 redundancy interface.

<interface-bad-version-received>—Number of bad version numbers received for LLC2 redundancy interface.

<interface-state>—LLC2 interface state.

<local-mac>—Local MAC address entry for LLC2 redundancy group.

<master-router-uptime>—Time that LLC2 redundancy group router has been the master.

<preempt>—Preemption enablement status for LLC2 redundancy group.

<remote-mac>—Remote MAC address entry for LLC2 redundancy group.

<state>—LLC2 router state.

<track-destination>—LLC2 track dest.

<track-destination-cost>—Cost of tracking LLC2 destination.

<track-destination-state>—State of tracked LLC2 destination.

<track-interface>—Name of LLC2 interface being tracked.

<track-interface-cost>—Cost of tracking LLC2 interface.

<track-interface-state>—State of tracked LLC2 interface.

<track-peer>—LLC2 track peer.

<track-peer-cost>—Cost of tracking LLC2 peer.

<track-peer-state>—State of tracked LLC2 remote peer.

<tracking>—Tracking status of LLC2 redundancy group.

<unit>—LLC2 unit number.

<llc2-redundancy>

Usage
```
<llc2-redundancy-list>
  <llc2-redundancy>
    <llc2>...</llc2>
  </llc2-redundancy>
</llc2-redundancy-list>
```

Description No documentation is available yet.

Contents <llc2>—No documentation is available yet.

<llc2-redundancy-interface-statistics>

Usage
```
<llc2-redundancy-interface-statistics-list>
  <llc2-redundancy-interface-statistics>
    <llc2>...</llc2>
  </llc2-redundancy-interface-statistics>
</llc2-redundancy-interface-statistics-list>
```

Description No documentation is available yet.

Contents <llc2>—No documentation is available yet.

<llc2-redundancy-interface-statistics-list>

Usage
```
<rpc-reply>
  <llc2-redundancy-interface-statistics-list>
    <llc2-redundancy-interface-statistics>...
                    </llc2-redundancy-interface-statistics>
  </llc2-redundancy-interface-statistics-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <llc2-redundancy-interface-statistics>—No documentation is available yet.

<llc2-redundancy-list>

Usage
```
<rpc-reply>
  <llc2-redundancy-list>
    <llc2-redundancy>...</llc2-redundancy>
  </llc2-redundancy-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <llc2-redundancy>—No documentation is available yet.

<llc2-redundancy-mac-translation>

Usage
```
<llc2-redundancy-mac-translation-list>
  <llc2-redundancy-mac-translation>
    <llc2>...</llc2>
  </llc2-redundancy-mac-translation>
</llc2-redundancy-mac-translation-list>
```

Description No documentation is available yet.

Contents <llc2>—No documentation is available yet.

<llc2-redundancy-mac-translation-list>

Usage
```
<rpc-reply>
  <llc2-redundancy-mac-translation-list>
    <llc2-redundancy-mac-translation>...</llc2-redundancy-mac-translation>
  </llc2-redundancy-mac-translation-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <llc2-redundancy-mac-translation>—No documentation is available yet.

<llc2-redundancy-track-dlsw-destination>

Usage
```
<llc2-redundancy-track-dlsw-destination-list>
  <llc2-redundancy-track-dlsw-destination>
    <llc2>...</llc2>
  </llc2-redundancy-track-dlsw-destination>
</llc2-redundancy-track-dlsw-destination-list>
```

Description No documentation is available yet.

Contents <llc2>—No documentation is available yet.

<llc2-redundancy-track-dlsw-destination-list>

Usage
```
<rpc-reply>
  <llc2-redundancy-track-dlsw-destination-list>
    <llc2-redundancy-track-dlsw-destination>...
                    </llc2-redundancy-track-dlsw-destination>
  </llc2-redundancy-track-dlsw-destination-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <llc2-redundancy-track-dlsw-destination>—No documentation is available yet.

<llc2-redundancy-track-dlsw-peer>

Usage
```
<llc2-redundancy-track-dlsw-peer-list>
  <llc2-redundancy-track-dlsw-peer>
    <llc2>...</llc2>
  </llc2-redundancy-track-dlsw-peer>
</llc2-redundancy-track-dlsw-peer-list>
```

Description No documentation is available yet.

Contents <llc2>—No documentation is available yet.

<llc2-redundancy-track-dlsw-peer-list>

Usage
```
<rpc-reply>
  <llc2-redundancy-track-dlsw-peer-list>
    <llc2-redundancy-track-dlsw-peer>...</llc2-redundancy-track-dlsw-peer>
  </llc2-redundancy-track-dlsw-peer-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <llc2-redundancy-track-dlsw-peer>—No documentation is available yet.

<llc2-redundancy-track-interface>

Usage
```
<llc2-redundancy-track-interface-list>
  <llc2-redundancy-track-interface>
    <llc2>...</llc2>
  </llc2-redundancy-track-interface>
</llc2-redundancy-track-interface-list>
```

Description No documentation is available yet.

Contents <llc2>—No documentation is available yet.

<llc2-redundancy-track-interface-list>

Usage
```
<rpc-reply>
  <llc2-redundancy-track-interface-list>
    <llc2-redundancy-track-interface>...</llc2-redundancy-track-interface>
  </llc2-redundancy-track-interface-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <llc2-redundancy-track-interface>—No documentation is available yet.

Summary of DHCP Response Tags

This section lists JUNOS XML tags that contain operational information about the Dynamic Host Configuration Protocol (DHCP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dhcp. To review the DTD for the tags, see "DTD for DHCP Response Tags" on page 2105.

<client-identifier>

Usage

```
<dhcp-binding>
  <client-identifier>
    <hex-data>hex-data</hex-data>
    <hex-data-line>hex-data-line</hex-data-line>
    <printable-data-line>printable-data-line</printable-data-line>
  </client-identifier>
</dhcp-binding>
```

Description Identifier that the DHCP client provided for itself when it requested an address assignment.

Contents <hex-data>—Data in hexadecimal format.

<hex-data-line>—Line of data in hexadecimal format.

<printable-data-line>—Line of data in printable format.

<dhcp-binding>

Usage

```
<dhcp-binding-information>
  <dhcp-binding>
    <allocated-address>allocated-address</allocated-address>
    <mac-address>mac-address</mac-address>
    <dhcp-lease-binding-type>dhcp-lease-binding-type</dhcp-lease-binding-type>
    <lease-end-time>lease-end-time</lease-end-time>
    <lease-state>lease-state</lease-state>
    <dhcp-option-table>...</dhcp-option-table>
    <address-pool-name>address-pool-name</address-pool-name>
    <interface-name>interface-name</interface-name>
    <bootp-relay-address>bootp-relay-address</bootp-relay-address>
    <dhcp-lease-information>...</dhcp-lease-information>
    <client-identifier>...</client-identifier>
  </dhcp-binding>
</dhcp-binding-information>
```

Description Information about the address assigned to a Dynamic Host Configuration Protocol client.

Contents <address-pool-name>—Name of the address pool.

<allocated-address>—IPv4 address assigned to the DHCP client.

<bootp-relay-address>—IP address of the bootstrap protocol server that relayed the address assigned by the DHCP server.

<client-identifier>—Identifier that the DHCP client provided for itself when it requested an address assignment.

<dhcp-lease-binding-type>—Type of the address assignment.

<dhcp-lease-information>—Information about an address assignment.

<dhcp-option-table>—Information about one or more Dynamic Host Configuration Protocol options that are associated with the address assignment.

<interface-name>—Name of the interface via which the DHCP relay process transmitted the address assignment.

<lease-end-time>—Time when the address assignment will expire, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone). The value 'never' indicates that the lease does not expire.

<lease-state>—Status of the address assignment.

<mac-address>—Media access control (hardware) address of the DHCP client.

<dhcp-binding-information>

Usage

```
<rpc-reply>
  <dhcp-binding-information>
    <dhcp-binding>...</dhcp-binding>
  </dhcp-binding-information>
</rpc-reply>
```

Description Information about the address assigned to each of one or more Dynamic Host Configuration Protocol clients.

Contents <dhcp-binding>—Information about the address assigned to a Dynamic Host Configuration Protocol client.

<dhcp-conflict>

Usage

```
<dhcp-conflict-information>
  <dhcp-conflict>
    <detection-time>detection-time</detection-time>
    <detection-method>detection-method</detection-method>
    <conflict-address>conflict-address</conflict-address>
  </dhcp-conflict>
</dhcp-conflict-information>
```

Description Information about a Dynamic Host Configuration Protocol conflict. A conflict arises when an address assigned to DHCP client is already assigned to another entity (computer or interface, for example).

Contents <conflict-address>—IPv4 address that is already in use by another host.

<detection-method>—Method used to detect the conflict.

<detection-time>—Time when the conflict was detected, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone).

<dhcp-conflict-information>

Usage

```
<rpc-reply>
  <dhcp-conflict-information>
    <dhcp-conflict>...</dhcp-conflict>
  </dhcp-conflict-information>
</rpc-reply>
```

Description Information about one or more Dynamic Host Configuration Protocol conflicts.

Contents <dhcp-conflict>—Information about a Dynamic Host Configuration Protocol conflict. A conflict arises when an address assigned to DHCP client is already assigned to another entity (computer or interface, for example).

<dhcp-global-information>

Usage

```
<rpc-reply>
  <dhcp-global-information>
    <dhcp-lease-time-information>...</dhcp-lease-time-information>
    <dhcp-option-table>...</dhcp-option-table>
    <bootp-lease-length>bootp-lease-length</bootp-lease-length>
  </dhcp-global-information>
</rpc-reply>
```

Description Information about Dynamic Host Configuration Protocol settings that are configured for the global scope.

Contents <bootp-lease-length>—Duration of address assignments to bootstrap protocol (BOOTP) clients.

<dhcp-lease-time-information>—Information about configured default, maximum, and minimum duration for address assignments.

<dhcp-option-table>—Information about one or more Dynamic Host Configuration Protocol options that are associated with the address assignment.

<dhcp-lease-information>

Usage

```
<dhcp-binding>
  <dhcp-lease-information>
    <dhcp-lease-type>dhcp-lease-type</dhcp-lease-type>
    <lease-start-time>lease-start-time</lease-start-time>
    <lease-end-time>lease-end-time</lease-end-time>
    <lease-state>lease-state</lease-state>
  </dhcp-lease-information>
</dhcp-binding>
```

Description Information about an address assignment.

Contents <dhcp-lease-type>—Lease type.

<lease-end-time>—Time when the address assignment will expire, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone). The value 'never' indicates that the lease does not expire.

<lease-start-time>—Time when the client obtained the address assignment, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone).

<lease-state>—Status of the address assignment.

<dhcp-lease-time-information>

Usage
```
<dhcp-pool | dhcp-global-information>
  <dhcp-lease-time-information>
    <default-lease-time>default-lease-time</default-lease-time>
    <minimum-lease-time>minimum-lease-time</minimum-lease-time>
    <maximum-lease-time>maximum-lease-time</maximum-lease-time>
  </dhcp-lease-time-information>
</dhcp-pool | dhcp-global-information>
```

Description Information about configured default, maximum, and minimum duration for address assignments.

Contents <default-lease-time>—Duration of an address assignment when the DHCP client does not specify a duration in its request.

<maximum-lease-time>—Maximum possible duration of an address assignment.

<minimum-lease-time>—Minimum possible duration of an address assignment.

<dhcp-option>

Usage
```
<dhcp-option-table>
  <dhcp-option>
    <dhcp-option-code>dhcp-option-code</dhcp-option-code>
    <dhcp-option-name>dhcp-option-name</dhcp-option-name>
    <dhcp-option-type>dhcp-option-type</dhcp-option-type>
    <dhcp-option-value>dhcp-option-value</dhcp-option-value>
  </dhcp-option>
</dhcp-option-table>
```

Description Information about a Dynamic Host Configuration Protocol option that is associated with the address assignment.

Contents <dhcp-option-code>—Numeric code assigned to the DHCP option.

<dhcp-option-name>—Name of the DHCP option.

<dhcp-option-type>—Type of value for the DHCP option (for example, string [word], integer, IP address).

<dhcp-option-value>—Value of the DHCP option.

<dhcp-option-table>

Usage

```
<dhcp-binding | dhcp-pool | dhcp-global-information>
  <dhcp-option-table>
    <dhcp-option>...</dhcp-option>
  </dhcp-option-table>
</dhcp-binding | dhcp-pool | dhcp-global-information>
```

Description Information about one or more Dynamic Host Configuration Protocol options that are associated with the address assignment.

Contents <dhcp-option>—Information about a Dynamic Host Configuration Protocol option that is associated with the address assignment.

<dhcp-pool>

Usage

```
<dhcp-pool-information>
  <dhcp-pool>
    <address-pool-name>address-pool-name</address-pool-name>
    <address-pool-low-address>address-pool-low-address</address-pool-low-address>
    <address-pool-high-address>address-pool-high-address
                </address-pool-high-address>
    <address-pool-excluded-address>address-pool-excluded-address
                </address-pool-excluded-address>
    <dhcp-lease-time-information>...</dhcp-lease-time-information>
    <dhcp-option-table>...</dhcp-option-table>
    <address-count>address-count</address-count>
    <assigned-lease-count>assigned-lease-count</assigned-lease-count>
    <active-lease-count>active-lease-count</active-lease-count>
    <offered-lease-count>offered-lease-count</offered-lease-count>
    <expired-lease-count>expired-lease-count</expired-lease-count>
    <conflict-count>conflict-count</conflict-count>
    <exclusion-count>exclusion-count</exclusion-count>
  </dhcp-pool>
</dhcp-pool-information>
```

Description Information about a Dynamic Host Configuration Protocol address pool.

Contents

<active-lease-count>—Number of active address assignments.

<address-count>—Number of addresses in the pool.

<address-pool-excluded-address>—IP address that the DHCP relay process does not assign even though the address is in the configured range of addresses in the address pool.

<address-pool-high-address>—Highest IP address that can be assigned from the pool.

<address-pool-low-address>—Lowest IP address that can be assigned from the pool.

<address-pool-name>—Name of the address pool.

<assigned-lease-count>—Number of addresses currently assigned.

<conflict-count>—Number of addresses in conflict.

<dhcp-lease-time-information>—Information about configured default, maximum, and minimum duration for address assignments.

<dhcp-option-table>—Information about one or more Dynamic Host Configuration Protocol options that are associated with the address assignment.

<exclusion-count>—Number of addresses excluded from the address pool.

<expired-lease-count>—Number of expired address assignments.

<offered-lease-count>—Number of address assignments offered.

<dhcp-pool-information>

Usage

```
<rpc-reply>
  <dhcp-pool-information>
    <dhcp-pool>...</dhcp-pool>
  </dhcp-pool-information>
</rpc-reply>
```

Description Information about one or more Dynamic Host Configuration Protocol address pools.

Contents <dhcp-pool>—Information about a Dynamic Host Configuration Protocol address pool.

<dhcp-statistics-information>

Usage

```
<rpc-reply>
  <dhcp-statistics-information>
    <dropped-packet-total>dropped-packet-total</dropped-packet-total>
    <dropped-packet-bad-hardware>dropped-packet-bad-hardware
            </dropped-packet-bad-hardware>
    <dropped-packet-bad-opcode>dropped-packet-bad-opcode
            </dropped-packet-bad-opcode>
    <dropped-packet-bad-options>dropped-packet-bad-options
            </dropped-packet-bad-options>
    <dropped-packet-invalid-server-address>dropped-packet-invalid-server-address
            </dropped-packet-invalid-server-address>
    <dropped-packet-no-addresses>dropped-packet-no-addresses
            </dropped-packet-no-addresses>
    <dropped-packet-no-interface>dropped-packet-no-interface
            </dropped-packet-no-interface>
    <dropped-packet-no-routing-instance>dropped-packet-no-routing-instance
            </dropped-packet-no-routing-instance>
    <dropped-packet-no-local-address>dropped-packet-no-local-address
            </dropped-packet-no-local-address>
    <dropped-packet-too-short>dropped-packet-too-short</dropped-packet-too-short>
    <dropped-packet-read-error>dropped-packet-read-error
            </dropped-packet-read-error>
    <dropped-packet-send-error>dropped-packet-send-error
            </dropped-packet-send-error>
    <message-table>...</message-table>
  </dhcp-statistics-information>
</rpc-reply>
```

Description Statistics from the Dynamic Host Configuration Protocol relay process.

Contents

<dropped-packet-bad-hardware>—Number of packets discarded by the DHCP relay process because they specified an invalid hardware address.

<dropped-packet-bad-opcode>—Number of packets discarded by the DHCP relay process because they specified an invalid operation code.

<dropped-packet-bad-options>—Number of packets discarded by the DHCP relay process because they specified invalid options.

<dropped-packet-invalid-server-address>—Number of packets discarded by the DHCP relay process because they specified an invalid server address.

<dropped-packet-no-addresses>—Number of packets discarded by the DHCP relay process because there were no addresses available for it to assign.

<dropped-packet-no-interface>—Number of packets discarded by the DHCP relay process because of an interface mismatch.

<dropped-packet-no-local-address>—Number of packets discarded by the DHCP relay process because there was no valid local address.

<dropped-packet-no-routing-instance>—Number of packets discarded by the DHCP relay process because of a routing-instance mismatch.

<dropped-packet-read-error>—Number of packets discarded by the DHCP relay process because of a read error.

<dropped-packet-send-error>—Number of packets that the DHCP relay process could not send.

<dropped-packet-too-short>—Number of packets discarded by the DHCP relay process because they were too short.

<dropped-packet-total>—Total number of packets discarded by the DHCP relay process because of errors.

<message-table>—Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP relay process.

<helper-statistics>

Usage

```
<rpc-reply>
  <helper-statistics>
    <relay-information>...</relay-information>
  </helper-statistics>
</rpc-reply>
```

Description Port forwarding helper statistics.

Contents <relay-information>—Port forwarding helper statistics for a DHCP relay service.

<message>

Usage

```
<message-table>
  <message>
    <message-name>message-name</message-name>
    <message-count>message-count</message-count>
  </message>
</message-table>
```

Description Information about a DHCP or BOOTP message.

Contents <message-count>—Number of times the DCHP relay process received or sent the message.

<message-name>—Name of the message.

<message-table>

Usage

```
<dhcp-statistics-information>
  <message-table>
    <message-direction>message-direction</message-direction>
    <message>...</message>
  </message-table>
</dhcp-statistics-information>
```

Description Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP relay process.

Contents <message>—Information about a DHCP or BOOTP message.

<message-direction>—Indicator of whether the DHCP relay process sent or received the messages.

<relay-information>

Usage

```
<helper-statistics>
  <relay-information>
    <bootp-received-packets>bootp-received-packets</bootp-received-packets>
    <bootp-forwarded-packets>bootp-forwarded-packets</bootp-forwarded-packets>
    <bootp-dropped-packets>bootp-dropped-packets</bootp-dropped-packets>
    <bootp-dropped-packets-nointerface>bootp-dropped-packets-nointerface
            </bootp-dropped-packets-nointerface>
    <bootp-dropped-packets-nortinst>bootp-dropped-packets-nortinst
            </bootp-dropped-packets-nortinst>
    <bootp-dropped-packets-badread>bootp-dropped-packets-badread
            </bootp-dropped-packets-badread>
    <bootp-dropped-packets-badsend>bootp-dropped-packets-badsend
            </bootp-dropped-packets-badsend>
    <bootp-dropped-packets-badaddr>bootp-dropped-packets-badaddr
            </bootp-dropped-packets-badaddr>
    <bootp-dropped-packets-nolocaladdr>bootp-dropped-packets-nolocaladdr
            </bootp-dropped-packets-nolocaladdr>
    <bootp-dropped-packets-noroute>bootp-dropped-packets-noroute
            </bootp-dropped-packets-noroute>
  </relay-information>
</helper-statistics>
```

Description Port forwarding helper statistics for a DHCP relay service.

Contents <bootp-dropped-packets>—Number of packets dropped.

<bootp-dropped-packets-badaddr>—Number of packets dropped because of an invalid server address.

<bootp-dropped-packets-badread>—Number of packets dropped because of an error during the packet read.

<bootp-dropped-packets-badsend>—Number of packets dropped because of an error during the packet send.

<bootp-dropped-packets-nointerface>—Number of packets dropped because of no interface.

<bootp-dropped-packets-nolocaladdr>—Number of packets dropped because of no valid local address.

<bootp-dropped-packets-noroute>—Number of packets dropped because of no route to server/client.

<bootp-dropped-packets-nortinst>—Number of packets dropped because of no routing instance.

<bootp-forwarded-packets>—Number of packets forwarded.

<bootp-received-packets>—Number of packets received.

Summary of DHCP Relay Response Tags

This section lists JUNOS XML tags that contain operational information about Dynamic Host Configuration Protocol (DHCP) Relay. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dhcp-relay. To review the DTD for the tags, see "DTD for DHCP Relay Response Tags" on page 2109.

<binding-summary>

Usage

```
<dhcp-relay-binding-information>
  <binding-summary>
    <binding-count>binding-count</binding-count>
    <bound-count>bound-count</bound-count>
    <selecting-count>selecting-count</selecting-count>
    <renewing-count>renewing-count</renewing-count>
    <rebinding-count>rebinding-count</rebinding-count>
    <restore-count>restore-count</restore-count>
  </binding-summary>
</dhcp-relay-binding-information>
```

Description No documentation is available yet.

Contents <binding-count>—Number of bindings in this routing instance.

<bound-count>—No documentation is available yet.

<rebinding-count>—No documentation is available yet.

<renewing-count>—No documentation is available yet.

<restore-count>—Number of clients waiting to be restored.

<selecting-count>—No documentation is available yet.

<client-identifier>

Usage

```
<dhcp-binding>
  <client-identifier>
    <hex-data>hex-data</hex-data>
    <hex-data-line>hex-data-line</hex-data-line>
    <printable-data-line>printable-data-line</printable-data-line>
  </client-identifier>
</dhcp-binding>
```

Description Identifier that the DHCP client provided for itself when it requested an address assignment.

Contents <hex-data>—Data in hexadecimal format.

<hex-data-line>—Line of data in hexadecimal format.

<printable-data-line>—Line of data in printable format.

<dhcp-binding>

Usage

```
<dhcp-relay-binding-information>
  <dhcp-binding>
    <allocated-address>allocated-address</allocated-address>
    <mac-address>mac-address</mac-address>
    <dhcp-lease-binding-type>dhcp-lease-binding-type</dhcp-lease-binding-type>
    <lease-end-time>lease-end-time</lease-end-time>
    <lease-state>lease-state</lease-state>
    <interface-name>interface-name</interface-name>
    <bootp-relay-address>bootp-relay-address</bootp-relay-address>
    <dhcp-lease-information>...</dhcp-lease-information>
    <client-identifier>...</client-identifier>
  </dhcp-binding>
</dhcp-relay-binding-information>
```

Description Information about the address assigned to a Dynamic Host Configuration Protocol client.

Contents <allocated-address>—IPv4 address assigned to the DHCP client.

<bootp-relay-address>—IP address of the bootstrap protocol server that relayed the address assigned by the DHCP server.

<client-identifier>—Identifier that the DHCP client provided for itself when it requested an address assignment.

<dhcp-lease-binding-type>—Type of the address assignment.

<dhcp-lease-information>—Information about an address assignment.

<interface-name>—Name of the interface via which the DHCP server transmitted the address assignment.

<lease-end-time>—Time when the address assignment will expire, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone). The value 'never' indicates that the lease does not expire.

<lease-state>—Status of the address assignment.

<mac-address>—Media access control (hardware) address of the DHCP client.

<dhcp-lease-information>

Usage

```
<dhcp-binding>
  <dhcp-lease-information>
    <dhcp-lease-type>dhcp-lease-type</dhcp-lease-type>
    <lease-start-time>lease-start-time</lease-start-time>
    <lease-end-time>lease-end-time</lease-end-time>
    <lease-state>lease-state</lease-state>
  </dhcp-lease-information>
</dhcp-binding>
```

Description Information about an address assignment.

Contents <dhcp-lease-type>—Lease type.

<lease-end-time>—Time when the address assignment will expire, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone). The value 'never' indicates that the lease does not expire.

<lease-start-time>—Time when the client obtained the address assignment, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone).

<lease-state>—Status of the address assignment.

<dhcp-relay-binding-information>

Usage

```
<rpc-reply>
  <dhcp-relay-binding-information>
    <binding-summary>...</binding-summary>
    <dhcp-binding>...</dhcp-binding>
  </dhcp-relay-binding-information>
</rpc-reply>
```

Description Information about the address assigned to each of one or more Dynamic Host Configuration Protocol clients.

Contents <binding-summary>—No documentation is available yet.

<dhcp-binding>—Information about the address assigned to a Dynamic Host Configuration Protocol client.

<dhcp-relay-statistics-information>

Usage

```
<rpc-reply>
  <dhcp-relay-statistics-information>
    <dropped-packet-total>dropped-packet-total</dropped-packet-total>
    <dropped-packet-bad-hardware>dropped-packet-bad-hardware
            </dropped-packet-bad-hardware>
    <dropped-packet-bad-opcode>dropped-packet-bad-opcode
            </dropped-packet-bad-opcode>
    <dropped-packet-bad-options>dropped-packet-bad-options
            </dropped-packet-bad-options>
    <dropped-packet-invalid-server-address>dropped-packet-invalid-server-address
            </dropped-packet-invalid-server-address>
    <dropped-packet-no-addresses>dropped-packet-no-addresses
            </dropped-packet-no-addresses>
    <dropped-packet-no-interface>dropped-packet-no-interface
            </dropped-packet-no-interface>
    <dropped-packet-no-routing-instance>dropped-packet-no-routing-instance
            </dropped-packet-no-routing-instance>
    <dropped-packet-no-local-address>dropped-packet-no-local-address
            </dropped-packet-no-local-address>
    <dropped-packet-too-short>dropped-packet-too-short</dropped-packet-too-short>
    <dropped-packet-read-error>dropped-packet-read-error
            </dropped-packet-read-error>
    <dropped-packet-send-error>dropped-packet-send-error
            </dropped-packet-send-error>
    <dropped-packet-option-60>dropped-packet-option-60</dropped-packet-option-60>
    <dropped-packet-option-82>dropped-packet-option-82</dropped-packet-option-82>
    <dropped-packet-authentication>dropped-packet-authentication
            </dropped-packet-authentication>
    <dropped-packet-dynamic-profile>dropped-packet-dynamic-profile
            </dropped-packet-dynamic-profile>
    <dropped-packet-license>dropped-packet-license</dropped-packet-license>
    <message-table>...</message-table>
  </dhcp-relay-statistics-information>
</rpc-reply>
```

Description Statistics from the Dynamic Host Configuration Protocol Relay.

Contents

<dropped-packet-authentication>—Number of packets discarded because authentication failed.

<dropped-packet-bad-hardware>—Number of packets discarded by the DHCP relay because they specified an invalid hardware address.

<dropped-packet-bad-opcode>—Number of packets discarded by the DHCP relay because they specified an invalid operation code.

<dropped-packet-bad-options>—Number of packets discarded by the DHCP relay because they specified invalid options.

<dropped-packet-dynamic-profile>—Number of packets discarded because a dynamic profile failed.

<dropped-packet-invalid-server-address>—Number of packets discarded by the DHCP

relay because they specified an invalid server address.

<dropped-packet-license>—Number of packets discarded because of a license failure.

<dropped-packet-no-addresses>—Number of packets discarded by the DHCP relay because there were no addresses available for it to assign.

<dropped-packet-no-interface>—Number of packets discarded by the DHCP relay because of an interface mismatch.

<dropped-packet-no-local-address>—Number of packets discarded by the DHCP relay because there was no valid local address.

<dropped-packet-no-routing-instance>—Number of packets discarded by the DHCP relay because of a routing-instance mismatch.

<dropped-packet-option-60>—Number of packets discarded with no matching option-60.

<dropped-packet-option-82>—Number of packets discarded because option-82 could not be added.

<dropped-packet-read-error>—Number of packets discarded by the DHCP relay because of a read error.

<dropped-packet-send-error>—Number of packets that the DHCP relay could not send.

<dropped-packet-too-short>—Number of packets discarded by the DHCP relay because they were too short.

<dropped-packet-total>—Total number of packets discarded by the DHCP relay because of errors.

<message-table>—Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP relay.

<message>

Usage

```
<message-table>
  <message>
    <message-name>message-name</message-name>
    <message-count>message-count</message-count>
  </message>
</message-table>
```

Description Information about a DHCP or BOOTP message.

Contents <message-count>—Number of times the DCHP relay received or sent the message.

<message-name>—Name of the message.

<message-table>

Usage

```
<dhcp-relay-statistics-information>
  <message-table>
    <message-direction>message-direction</message-direction>
    <message>...</message>
  </message-table>
</dhcp-relay-statistics-information>
```

Description Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP relay.

Contents <message>—Information about a DHCP or BOOTP message.

<message-direction>—Indicator of whether the DHCP relay sent or received the messages.

Summary of DHCP Server Response Tags

This section lists JUNOS XML tags that contain operational information about the Dynamic Host Configuration Protocol (DHCP) Server. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dhcp-server. To review the DTD for the tags, see "DTD for DHCP Server Response Tags" on page 2113.

<binding-summary>

Usage

```
<dhcp-server-binding-information>
  <binding-summary>
    <binding-count>binding-count</binding-count>
    <bound-count>bound-count</bound-count>
    <selecting-count>selecting-count</selecting-count>
    <renewing-count>renewing-count</renewing-count>
    <rebinding-count>rebinding-count</rebinding-count>
    <restore-count>restore-count</restore-count>
  </binding-summary>
</dhcp-server-binding-information>
```

Description No documentation is available yet.

Contents <binding-count>—Number of bindings in this routing instance.

<bound-count>—No documentation is available yet.

<rebinding-count>—No documentation is available yet.

<renewing-count>—No documentation is available yet.

<restore-count>—Number of clients waiting to be restored.

<selecting-count>—No documentation is available yet.

<client-identifier>

Usage

```
<dhcp-binding>
  <client-identifier>
    <hex-data>hex-data</hex-data>
    <hex-data-line>hex-data-line</hex-data-line>
    <printable-data-line>printable-data-line</printable-data-line>
  </client-identifier>
</dhcp-binding>
```

Description Identifier that the DHCP client provided for itself when it requested an address assignment.

Contents <hex-data>—Data in hexadecimal format.

<hex-data-line>—Line of data in hexadecimal format.

<printable-data-line>—Line of data in printable format.

<dhcp-binding>

Usage

```
<dhcp-server-binding-information>
  <dhcp-binding>
    <allocated-address>allocated-address</allocated-address>
    <mac-address>mac-address</mac-address>
    <dhcp-lease-binding-type>dhcp-lease-binding-type</dhcp-lease-binding-type>
    <lease-start-time>lease-start-time</lease-start-time>
    <lease-end-time>lease-end-time</lease-end-time>
    <lease-state>lease-state</lease-state>
    <dhcp-lease-type>dhcp-lease-type</dhcp-lease-type>
    <interface-name>interface-name</interface-name>
    <bootp-relay-address>bootp-relay-address</bootp-relay-address>
    <client-identifier>...</client-identifier>
  </dhcp-binding>
</dhcp-server-binding-information>
```

Description Information about the address assigned to a Dynamic Host Configuration Protocol client.

Contents <allocated-address>—IPv4 address assigned to the DHCP client.

<bootp-relay-address>—IP address of the bootstrap protocol server that relayed the address assigned by the DHCP server.

<client-identifier>—Identifier that the DHCP client provided for itself when it requested an address assignment.

<dhcp-lease-binding-type>—Type of the address assignment.

<dhcp-lease-type>—Lease type.

<interface-name>—Name of the interface via which the DHCP server transmitted the address assignment.

<lease-end-time>—Time when the address assignment will expire, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone). The value 'never' indicates that the lease does not expire.

<lease-start-time>—Time when the client obtained the address assignment, in the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-hour format, minute, second, time zone).

<lease-state>—Status of the address assignment.

<mac-address>—Media access control (hardware) address of the DHCP client.

<dhcp-server-binding-information>

Usage

```
<rpc-reply>
  <dhcp-server-binding-information>
    <binding-summary>...</binding-summary>
    <dhcp-binding>...</dhcp-binding>
  </dhcp-server-binding-information>
</rpc-reply>
```

Description Information about the address assigned to each of one or more Dynamic Host Configuration Protocol clients.

Contents <binding-summary>—No documentation is available yet.

<dhcp-binding>—Information about the address assigned to a Dynamic Host Configuration Protocol client.

<dhcp-server-statistics-information>

Usage

```
<rpc-reply>
  <dhcp-server-statistics-information>
    <dropped-packet-total>dropped-packet-total</dropped-packet-total>
    <dropped-packet-bad-hardware>dropped-packet-bad-hardware
            </dropped-packet-bad-hardware>
    <dropped-packet-bad-opcode>dropped-packet-bad-opcode
            </dropped-packet-bad-opcode>
    <dropped-packet-bad-options>dropped-packet-bad-options
            </dropped-packet-bad-options>
    <dropped-packet-invalid-server-address>dropped-packet-invalid-server-address
            </dropped-packet-invalid-server-address>
    <dropped-packet-no-addresses>dropped-packet-no-addresses
            </dropped-packet-no-addresses>
    <dropped-packet-no-interface>dropped-packet-no-interface
            </dropped-packet-no-interface>
    <dropped-packet-no-routing-instance>dropped-packet-no-routing-instance
            </dropped-packet-no-routing-instance>
    <dropped-packet-no-local-address>dropped-packet-no-local-address
            </dropped-packet-no-local-address>
    <dropped-packet-too-short>dropped-packet-too-short</dropped-packet-too-short>
    <dropped-packet-read-error>dropped-packet-read-error
            </dropped-packet-read-error>
    <dropped-packet-send-error>dropped-packet-send-error
            </dropped-packet-send-error>
    <dropped-packet-authentication>dropped-packet-authentication
            </dropped-packet-authentication>
    <dropped-packet-dynamic-profile>dropped-packet-dynamic-profile
            </dropped-packet-dynamic-profile>
    <dropped-packet-license>dropped-packet-license</dropped-packet-license>
    <v6-dropped-packet-total>v6-dropped-packet-total</v6-dropped-packet-total>
    <v6-dropped-packet-no-safd>v6-dropped-packet-no-safd
            </v6-dropped-packet-no-safd>
    <v6-dropped-packet-bad-send>v6-dropped-packet-bad-send
            </v6-dropped-packet-bad-send>
    <v6-dropped-packet-short-packet>v6-dropped-packet-short-packet
            </v6-dropped-packet-short-packet>
    <v6-dropped-packet-bad-msgtype>v6-dropped-packet-bad-msgtype
            </v6-dropped-packet-bad-msgtype>
    <v6-dropped-packet-bad-options>v6-dropped-packet-bad-options
            </v6-dropped-packet-bad-options>
    <v6-dropped-packet-bad-srcaddress>v6-dropped-packet-bad-srcaddress
            </v6-dropped-packet-bad-srcaddress>
    <v6-dropped-packet-relay-hop-count>v6-dropped-packet-relay-hop-count
            </v6-dropped-packet-relay-hop-count>
    <v6-dropped-packet-no-client-id>v6-dropped-packet-no-client-id
            </v6-dropped-packet-no-client-id>
    <message-table>...</message-table>
  </dhcp-server-statistics-information>
</rpc-reply>
```

Description Statistics from the Dynamic Host Configuration Protocol Server.

Contents <dropped-packet-authentication>—Number of packets discarded because

authentication failed.

<dropped-packet-bad-hardware>—Number of packets discarded by the DHCP server because they specified an invalid hardware address.

<dropped-packet-bad-opcode>—Number of packets discarded by the DHCP server because they specified an invalid operation code.

<dropped-packet-bad-options>—Number of packets discarded by the DHCP server because they specified invalid options.

<dropped-packet-dynamic-profile>—Number of packets discarded because a dynamic profile failed.

<dropped-packet-invalid-server-address>—Number of packets discarded by the DHCP server because they specified an invalid server address.

<dropped-packet-license>—Number of packets discarded because of a license failure.

<dropped-packet-no-addresses>—Number of packets discarded by the DHCP server because there were no addresses available for it to assign.

<dropped-packet-no-interface>—Number of packets discarded by the DHCP server because of an interface mismatch.

<dropped-packet-no-local-address>—Number of packets discarded by the DHCP server because there was no valid local address.

<dropped-packet-no-routing-instance>—Number of packets discarded by the DHCP server because of a routing-instance mismatch.

<dropped-packet-read-error>—Number of packets discarded by the DHCP server because of a read error.

<dropped-packet-send-error>—Number of packets that the DHCP server could not send.

<dropped-packet-too-short>—Number of packets discarded by the DHCP server because they were too short.

<dropped-packet-total>—Total number of packets discarded by the DHCP server because of errors.

<message-table>—Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP server.

<v6-dropped-packet-bad-msgtype>—Number of packets discarded by the DHCPv6 relay due to bad opcode in packet.

<v6-dropped-packet-bad-options>—Number of packets discarded by the DHCPv6 relay because they specified invalid options.

<v6-dropped-packet-bad-send>—Number of packets discarded by the DHCPv6 relay due to send error.

<v6-dropped-packet-bad-srcaddress>—Number of packets discarded by the DHCPv6 relay because they specified invalid addr family.

<v6-dropped-packet-no-client-id>—Number of packets discarded by the DHCPv6 relay due to missing client id .

<v6-dropped-packet-no-safd>—Number of packets discarded by the DHCPv6 relay due to no safd match.

<v6-dropped-packet-relay-hop-count>—Number of packets discarded by the DHCPv6 relay due to max relays supported .

<v6-dropped-packet-short-packet>—Number of packets discarded by the DHCPv6 relay because they were too short.

<v6-dropped-packet-total>—Total number of packets discarded by the DHCPv6 relay because of errors.

<*message*>

Usage

```
<message-table>
  <message>
    <message-name>message-name</message-name>
    <message-count>message-count</message-count>
  </message>
</message-table>
```

Description Information about a DHCP or BOOTP message.

Contents <message-count>—Number of times the DCHP server received or sent the message.

<message-name>—Name of the message.

<*message-table*>

Usage

```
<dhcp-server-statistics-information>
  <message-table>
    <message-direction>message-direction</message-direction>
    <message>...</message>
  </message-table>
</dhcp-server-statistics-information>
```

Description Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP server.

Contents <message>—Information about a DHCP or BOOTP message.

<message-direction>—Indicator of whether the DHCP server sent or received the messages.

Summary of Dialer Response Tags

This section lists JUNOS XML tags that contain operational information about the Integrated Services Digital Network (ISDN) dialer. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dood. To review the DTD for the tags, see "DTD for Dialer Response Tags" on page 2117.

<dial-string-list>

Usage

```
<dialer-interface>
  <dial-string-list>
    <dial-string>dial-string</dial-string>
  </dial-string-list>
</dialer-interface>
```

Description No documentation is available yet.

Contents <dial-string>—Dial string.

<dialer-defaults-information>

Usage

```
<rpc-reply>
  <dialer-defaults-information>
    <default-idle-timeout>default-idle-timeout</default-idle-timeout>
    <default-activation-delay>default-activation-delay</default-activation-delay>
    <default-deactivation-delay>default-deactivation-delay
                </default-deactivation-delay>
    <default-initial-route-check>default-initial-route-check
                </default-initial-route-check>
    <default-pool-priority>default-pool-priority</default-pool-priority>
    <default-load-threshold>default-load-threshold</default-load-threshold>
    <default-load-interval>default-load-interval</default-load-interval>
    <default-redial-delay>default-redial-delay</default-redial-delay>
    <default-callback-wait-period>default-callback-wait-period
                </default-callback-wait-period>
  </dialer-defaults-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<default-activation-delay>—Default value of dialer activation delay.

<default-callback-wait-period>—Default value of dialer callback wait period which determines how long to wait before dialer attempts a callback.

<default-deactivation-delay>—Default value of dialer deactivation delay.

<default-idle-timeout>—Default value of dialer idle timeout.

<default-initial-route-check>—Default value of dialer watch initial route check time.

<default-load-interval>—Default value of dialer load interval.

<default-load-threshold>—Default value of dialer load threshold.

<default-pool-priority>—Default value of dialer pool priority.

<default-redial-delay>—Default value for dialer redial delay which determines how long to wait before dialer attempts to redial.

<dialer-info>

Usage

```
<pool-member-list>
  <dialer-info>
    <dialer-interface-name>dialer-interface-name</dialer-interface-name>
    <dialer-interface-state>dialer-interface-state</dialer-interface-state>
    <dialer-interface-flags>...</dialer-interface-flags>
  </dialer-info>
</pool-member-list>
```

Description No documentation is available yet.

Contents <dialer-interface-flags>—Flags indicating interface configuration.

<dialer-interface-name>—Interface name.

<dialer-interface-state>—Dialer interface state.

<dialer-interface>

Usage

```
<dialer-interface-information>
  <dialer-interface>
    <dialer-interface-name>dialer-interface-name</dialer-interface-name>
    <dialer-interface-state>dialer-interface-state</dialer-interface-state>
    <dialer-interface-flags>...</dialer-interface-flags>
    <pool-id>pool-id</pool-id>
    <primary-interface>primary-interface</primary-interface>
    <dial-string-list>...</dial-string-list>
    <sub-interface-list>...</sub-interface-list>
    <watch-list>...</watch-list>
    <activation-delay>activation-delay</activation-delay>
    <deactivation-delay>deactivation-delay</deactivation-delay>
    <activation-delay-elapsed>activation-delay-elapsed</activation-delay-elapsed>
    <deactivation-delay-elapsed>deactivation-delay-elapsed
                </deactivation-delay-elapsed>
    <call-idle-timeout>call-idle-timeout</call-idle-timeout>
    <initial-route-check>initial-route-check</initial-route-check>
    <redial-delay>redial-delay</redial-delay>
    <callback-wait-period>callback-wait-period</callback-wait-period>
    <callback-wait-period-elapsed>callback-wait-period-elapsed
                </callback-wait-period-elapsed>
    <load-threshold>load-threshold</load-threshold>
    <load-interval>load-interval</load-interval>
  </dialer-interface>
</dialer-interface-information>
```

Description No documentation is available yet.

Contents <activation-delay>—Activation delay.

<activation-delay-elapsed>—Activation delay elapsed.

<call-idle-timeout>—Call idle timeout.

<callback-wait-period>—Delay before dialer attempts callback (seconds).

<callback-wait-period-elapsed>—Number of seconds in callback wait period that have elapsed.

<deactivation-delay>—Deactivation delay.

<deactivation-delay-elapsed>—Deactivation delay elapsed.

<dial-string-list>—No documentation is available yet.

<dialer-interface-flags>—Flags indicating interface configuration.

<dialer-interface-name>—Interface name.

<dialer-interface-state>—Dialer interface state.

<initial-route-check>—Initial route check delay.

<load-interval>—Interval over which average load is calculated.

<load-threshold>—Load threshold that determines when interfaces are added to bundle.

<pool-id>—Pool identifier.

<primary-interface>—Primary interface.

<redial-delay>—Delay before dialer dials out again (seconds).

<sub-interface-list>—No documentation is available yet.

<watch-list>—No documentation is available yet.

<dialer-interface-flags>

Usage
```
<dialer-interface | dialer-info>
  <dialer-interface-flags>
    <backup/>
    <multilink/>
    <watchlist/>
    <interesting-detected/>
  </dialer-interface-flags>
</dialer-interface | dialer-info>
```

Description Flags indicating interface configuration.

Contents <backup>—Dialer backup.

<interesting-detected>—Interesting packet detected.

<multilink>—Dialer multilink.

<watchlist>—Dialer watchlist.

<dialer-interface-information>

Usage
```
<rpc-reply>
  <dialer-interface-information>
    <dialer-interface>...</dialer-interface>
  </dialer-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dialer-interface>—No documentation is available yet.

<dialer-pool>

Usage

```
<dialer-pool-information>
  <dialer-pool>
    <pool-id>pool-id</pool-id>
    <pool-member-list>...</pool-member-list>
  </dialer-pool>
</dialer-pool-information>
```

Description No documentation is available yet.

Contents <pool-id>—Pool identifier.

<pool-member-list>—No documentation is available yet.

<dialer-pool-information>

Usage

```
<rpc-reply>
  <dialer-pool-information>
    <dialer-pool>...</dialer-pool>
  </dialer-pool-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dialer-pool>—No documentation is available yet.

<pool-member-list>

Usage

```
<dialer-pool>
  <pool-member-list>
    <dialer-info>...</dialer-info>
    <sub-info>...</sub-info>
  </pool-member-list>
</dialer-pool>
```

Description No documentation is available yet.

Contents <dialer-info>—No documentation is available yet.

<sub-info>—No documentation is available yet.

<sub-info>

Usage
```
<pool-member-list>
  <sub-info>
    <sub-interface-name>sub-interface-name</sub-interface-name>
    <sub-interface-flags>sub-interface-flags</sub-interface-flags>
    <pool-priority>pool-priority</pool-priority>
  </sub-info>
</pool-member-list>
```

Description No documentation is available yet.

Contents <pool-priority>—Pool priority.

<sub-interface-flags>—Flags indicating subordinate interface status.

<sub-interface-name>—Subordinate interface name.

<sub-interface-list>

Usage
```
<dialer-interface>
  <sub-interface-list>
    <sub-interface-name>sub-interface-name</sub-interface-name>
  </sub-interface-list>
</dialer-interface>
```

Description No documentation is available yet.

Contents <sub-interface-name>—Subordinate interface name.

<watch-list>

Usage
```
<dialer-interface>
  <watch-list>
    <watch-route>watch-route</watch-route>
  </watch-list>
</dialer-interface>
```

Description No documentation is available yet.

Contents <watch-route>—Watch route.

Summary of Diameter Response Tags

This section lists JUNOS XML tags that contain operational information about Diameter peers and nodes. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-diameter. To review the DTD for the tags, see "DTD for Diameter Response Tags" on page 2121.

<diameter-all-peer-connection-tags>

Usage

```
<show-diameter-results>
  <diameter-all-peer-connection-tags>
    <diameter-peer-address>diameter-peer-address</diameter-peer-address>
    <diameter-peer-port>diameter-peer-port</diameter-peer-port>
    <diameter-node-address>diameter-node-address</diameter-node-address>
    <diameter-node-port>diameter-node-port</diameter-node-port>
    <diameter-current-connection-start-time>diameter-current-connection-start-time
        </diameter-current-connection-start-time>
    <diameter-message-sent>diameter-message-sent</diameter-message-sent>
    <diameter-message-received>diameter-message-received
        </diameter-message-received>
    <diameter-bad-message-received>diameter-bad-message-received
        </diameter-bad-message-received>
    <diameter-last-message-received-time>diameter-last-message-received-time
        </diameter-last-message-received-time>
    <diameter-last-message-sent-time>diameter-last-message-sent-time
        </diameter-last-message-sent-time>
  </diameter-all-peer-connection-tags>
</show-diameter-results>
```

Description No documentation is available yet.

Contents <diameter-bad-message-received>—Total number of bad Diameter message received.

<diameter-current-connection-start-time>—Start time of current connection.

<diameter-last-message-received-time>—Time of last message received.

<diameter-last-message-sent-time>—Time of last message receivet.

<diameter-message-received>—Total number of Diameter message received.

<diameter-message-sent>—Total number of Diameter message sent.

<diameter-node-address>—IP address of a Diameter node (host).

<diameter-node-port>—Port of a Diameter node (host).

<diameter-peer-address>—IP address of a peer.

<diameter-peer-port>—Port of a Diameter peer.

<diameter-all-peer-summary-tags>

Usage

```
<show-diameter-results>
  <diameter-all-peer-summary-tags>
    <diameter-peer-mandatory-name>diameter-peer-mandatory-name
                </diameter-peer-mandatory-name>
    <diameter-peer-mandatory-ipaddr>diameter-peer-mandatory-ipaddr
                </diameter-peer-mandatory-ipaddr>
    <diameter-application-id>diameter-application-id</diameter-application-id>
    <diameter-application-name>diameter-application-name
                </diameter-application-name>
    <diameter-connection-status>diameter-connection-status
                </diameter-connection-status>
  </diameter-all-peer-summary-tags>
</show-diameter-results>
```

Description No documentation is available yet.

Contents <diameter-application-id>—Applications Id supported by peer.

<diameter-application-name>—Application name.

<diameter-connection-status>—Connection status of the peer.

<diameter-peer-mandatory-ipaddr>—Address of a peer.

<diameter-peer-mandatory-name>—Name of a peer.

<diameter-message-statistics-tags>

Usage <diameter-statistics-tags | diameter-peer-statistics-tags>

<diameter-message-statistics-tags>

<diameter-asr-message-sent>*diameter-asr-message-sent*
</diameter-asr-message-sent>
<diameter-asa-message-received>*diameter-asa-message-received*
</diameter-asa-message-received>
<diameter-asr-message-received>*diameter-asr-message-received*
</diameter-asr-message-received>
<diameter-asa-message-sent>*diameter-asa-message-sent*
</diameter-asa-message-sent>
<diameter-acr-message-sent>*diameter-acr-message-sent*
</diameter-acr-message-sent>
<diameter-aca-message-received>*diameter-aca-message-received*
</diameter-aca-message-received>
<diameter-acr-message-received>*diameter-acr-message-received*
</diameter-acr-message-received>
<diameter-aca-message-sent>*diameter-aca-message-sent*
</diameter-aca-message-sent>
<diameter-cer-message-sent>*diameter-cer-message-sent*
</diameter-cer-message-sent>
<diameter-cea-message-received>*diameter-cea-message-received*
</diameter-cea-message-received>
<diameter-cer-message-received>*diameter-cer-message-received*
</diameter-cer-message-received>
<diameter-cea-message-sent>*diameter-cea-message-sent*
</diameter-cea-message-sent>
<diameter-dwr-message-sent>*diameter-dwr-message-sent*
</diameter-dwr-message-sent>
<diameter-dwa-message-received>*diameter-dwa-message-received*
</diameter-dwa-message-received>
<diameter-dwr-message-received>*diameter-dwr-message-received*
</diameter-dwr-message-received>
<diameter-dwa-message-sent>*diameter-dwa-message-sent*
</diameter-dwa-message-sent>
<diameter-dpr-message-sent>*diameter-dpr-message-sent*
</diameter-dpr-message-sent>
<diameter-dpa-message-received>*diameter-dpa-message-received*
</diameter-dpa-message-received>
<diameter-dpr-message-received>*diameter-dpr-message-received*
</diameter-dpr-message-received>
<diameter-dpa-message-sent>*diameter-dpa-message-sent*
</diameter-dpa-message-sent>
<diameter-rar-message-sent>*diameter-rar-message-sent*
</diameter-rar-message-sent>
<diameter-raa-message-received>*diameter-raa-message-received*
</diameter-raa-message-received>
<diameter-rar-message-received>*diameter-rar-message-received*
</diameter-rar-message-received>
<diameter-raa-message-sent>*diameter-raa-message-sent*
</diameter-raa-message-sent>
<diameter-str-message-sent>*diameter-str-message-sent*
</diameter-str-message-sent>

```
        <diameter-sta-message-received>diameter-sta-message-received
                        </diameter-sta-message-received>
        <diameter-str-message-received>diameter-str-message-received
                        </diameter-str-message-received>
        <diameter-sta-message-sent>diameter-sta-message-sent
                        </diameter-sta-message-sent>
      </diameter-message-statistics-tags>
    </diameter-statistics-tags | diameter-peer-statistics-tags>
```

Description No documentation is available yet.

Contents

<diameter-aca-message-received>—Total number of Accounting-Answer message received from the peer.

<diameter-aca-message-sent>—Total number of Accounting-Answer message sent to the peer.

<diameter-acr-message-received>—Total number of Accounting-Request message received from the peer.

<diameter-acr-message-sent>—Total number of Accounting-Request message sent to the peer.

<diameter-asa-message-received>—Total number of Abort-Session-Answer received.

<diameter-asa-message-sent>—Total number of Abort-Session-Answer sent to the peer.

<diameter-asr-message-received>—Total number of Abort-Session-Request received from the peer.

<diameter-asr-message-sent>—Total number of Abort-Session-Request message sent.

<diameter-cea-message-received>—Total number of Capabilities-Exchange-Answer message received from the peer.

<diameter-cea-message-sent>—Total number of Capabilities-Exchange-Answer message sent to the peer.

<diameter-cer-message-received>—Total number of Capabilities-Exchange-Request message received from the peer.

<diameter-cer-message-sent>—Total number of Capabilities-Exchange-Request message sent to the peer.

<diameter-dpa-message-received>—Total number of Disconnect-Peer-Answer message received from the peer.

<diameter-dpa-message-sent>—Total number of Disconnect-Peer-Answer message sent to the peer.

<diameter-dpr-message-received>—Total number of Disconnect-Peer-Request message received from the peer.

<diameter-dpr-message-sent>—Total number of Disconnect-Peer-Request message sent to the peer.

<diameter-dwa-message-received>—Total number of Device-Watchdog-Answer message received from the peer.

<diameter-dwa-message-sent>—Total number of Device-Watchdog-Answer message sent to the peer.

<diameter-dwr-message-received>—Total number of Device-Watchdog-Request message received from the peer.

<diameter-dwr-message-sent>—Total number of Device-Watchdog-Request message sent to the peer.

<diameter-raa-message-received>—Total number of Re-Auth-Answer message received from the peer.

<diameter-raa-message-sent>—Total number of Re-Auth-Answer message sent to the peer.

<diameter-rar-message-received>—Total number of Re-Auth-Request message received from the peer.

<diameter-rar-message-sent>—Total number of Re-Auth-Request message sent to the peer.

<diameter-sta-message-received>—Total number of Session-Termination-Answer message received from the peer.

<diameter-sta-message-sent>—Total number of Session-Termination-Answer message sent to the peer.

<diameter-str-message-received>—Total number of Session-Termination-Request message received from the peer.

<diameter-str-message-sent>—Total number of Session-Termination-Request message sent to the peer.

<diameter-peer-session-tags>

Usage

```
<show-diameter-peer-results>
  <diameter-peer-session-tags>
    <diameter-session-id>diameter-session-id</diameter-session-id>
    <diameter-session-tba>diameter-session-tba</diameter-session-tba>
  </diameter-peer-session-tags>
</show-diameter-peer-results>
```

Description No documentation is available yet.

Contents <diameter-session-id>—Session Id.

<diameter-session-tba>—Session TBA.

<diameter-peer-statistics-tags>

Usage

```
<show-diameter-peer-results>
  <diameter-peer-statistics-tags>
    <diameter-message-statistics-tags>...</diameter-message-statistics-tags>
  </diameter-peer-statistics-tags>
</show-diameter-peer-results>
```

Description No documentation is available yet.

Contents <diameter-message-statistics-tags>—No documentation is available yet.

<diameter-peer-summary-tags>

Usage

```
<show-diameter-peer-results>
  <diameter-peer-summary-tags>
    <diameter-peer-mandatory-name>diameter-peer-mandatory-name
            </diameter-peer-mandatory-name>
    <diameter-peer-mandatory-ipaddr>diameter-peer-mandatory-ipaddr
            </diameter-peer-mandatory-ipaddr>
    <diameter-connection-status>diameter-connection-status
            </diameter-connection-status>
    <diameter-connection-type>diameter-connection-type</diameter-connection-type>
    <diameter-peer-port>diameter-peer-port</diameter-peer-port>
    <diameter-security>diameter-security</diameter-security>
    <diameter-application-supported>diameter-application-supported
            </diameter-application-supported>
    <diameter-message-sent>diameter-message-sent</diameter-message-sent>
    <diameter-message-received>diameter-message-received
            </diameter-message-received>
    <diameter-bad-message-received>diameter-bad-message-received
            </diameter-bad-message-received>
    <diameter-opened-session>diameter-opened-session</diameter-opened-session>
    <diameter-closed-session>diameter-closed-session</diameter-closed-session>
    <diameter-active-session>diameter-active-session</diameter-active-session>
    <diameter-list-session-id>diameter-list-session-id</diameter-list-session-id>
    <diameter-last-connection-start-time>diameter-last-connection-start-time
            </diameter-last-connection-start-time>
    <diameter-last-connection-closed-time>diameter-last-connection-closed-time
            </diameter-last-connection-closed-time>
    <diameter-current-connection-start-time>diameter-current-connection-start-time
            </diameter-current-connection-start-time>
  </diameter-peer-summary-tags>
</show-diameter-peer-results>
```

Description No documentation is available yet.

Contents

<diameter-active-session>—Total number of active sessions.

<diameter-application-supported>—List of names application supported.

<diameter-bad-message-received>—Total number of bad Diameter message received.

<diameter-closed-session>—Total number of sessions closed.

<diameter-connection-status>—Connection status of the peer.

<diameter-connection-type>—Connection type of the peer.

<diameter-current-connection-start-time>—Start time of current connection.

<diameter-last-connection-closed-time>—Time of last connection closed.

<diameter-last-connection-start-time>—Time of last message received.

<diameter-list-session-id>—List of session Id.

<diameter-message-received>—Total number of Diameter message received.

<diameter-message-sent>—Total number of Diameter message sent.

<diameter-opened-session>—Total number of sessions opened.

<diameter-peer-mandatory-ipaddr>—Address of a peer.

<diameter-peer-mandatory-name>—Name of a peer.

<diameter-peer-port>—Port of a Diameter peer.

<diameter-security>—Security used.

<diameter-process-summary-tags>

Usage
```
<show-diameter-results>
  <diameter-process-summary-tags>
    <diameter-pid>diameter-pid</diameter-pid>
    <diameter-up-time>diameter-up-time</diameter-up-time>
    <diameter-peer-connected>diameter-peer-connected</diameter-peer-connected>
    <diameter-peer-closed>diameter-peer-closed</diameter-peer-closed>
    <diameter-peer-active>diameter-peer-active</diameter-peer-active>
  </diameter-process-summary-tags>
</show-diameter-results>
```

Description Diameter process sumamry.

Contents <diameter-peer-active>—Number of Diameter peers currently active.

<diameter-peer-closed>—Number of Diameter peers closed.

<diameter-peer-connected>—Number of Diameter peers connected to the router.

<diameter-pid>—Diameter process Id.

<diameter-up-time>—Diameter process up time.

<diameter-statistics-tags>

Usage
```
<show-diameter-results>
  <diameter-statistics-tags>
    <diameter-message-statistics-tags>...</diameter-message-statistics-tags>
  </diameter-statistics-tags>
</show-diameter-results>
```

Description No documentation is available yet.

Contents <diameter-message-statistics-tags>—No documentation is available yet.

<show-diameter-peer-results>

Usage

```
<rpc-reply>
  <show-diameter-peer-results>
    <diameter-peer-summary-tags>...</diameter-peer-summary-tags>
    <diameter-peer-session-tags>...</diameter-peer-session-tags>
    <diameter-peer-statistics-tags>...</diameter-peer-statistics-tags>
  </show-diameter-peer-results>
</rpc-reply>
```

Description Show diameter peer informaiton for a specific peer.

Contents <diameter-peer-session-tags>—No documentation is available yet.

<diameter-peer-statistics-tags>—No documentation is available yet.

<diameter-peer-summary-tags>—No documentation is available yet.

<show-diameter-results>

Usage

```
<rpc-reply>
  <show-diameter-results>
    <diameter-process-summary-tags>...</diameter-process-summary-tags>
    <diameter-all-peer-summary-tags>...</diameter-all-peer-summary-tags>
    <diameter-all-peer-connection-tags>...</diameter-all-peer-connection-tags>
    <diameter-statistics-tags>...</diameter-statistics-tags>
  </show-diameter-results>
</rpc-reply>
```

Description Show diameter information.

Contents <diameter-all-peer-connection-tags>—No documentation is available yet.

<diameter-all-peer-summary-tags>—No documentation is available yet.

<diameter-process-summary-tags>—Diameter process sumamry.

<diameter-statistics-tags>—No documentation is available yet.

Summary of Dynamic Configuration Response Tags

This section lists JUNOS XML tags that contain operational information about dynamic configuration. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dynamic-configuration. To review the DTD for the tags, see "DTD for Dynamic Configuration Response Tags" on page 2125.

<client-session-info>

Usage

```
<dynamic-configuration-information>
  <client-session-info>
    <accounting-session-id>accounting-session-id</accounting-session-id>
    <address-pool>address-pool</address-pool>
    <interface>interface</interface>
    <ip-address>ip-address</ip-address>
    <ip-address-mask>ip-address-mask</ip-address-mask>
    <ipv6-address>ipv6-address</ipv6-address>
    <ipv6-address-mask>ipv6-address-mask</ipv6-address-mask>
    <logical-system>logical-system</logical-system>
    <profile>profile</profile>
    <mac-address>mac-address</mac-address>
    <nas-port-type>nas-port-type</nas-port-type>
    <routing-instance>routing-instance</routing-instance>
    <session-id>session-id</session-id>
    <client-session-type>client-session-type</client-session-type>
    <user-name>user-name</user-name>
    <dhcp-gi-address>dhcp-gi-address</dhcp-gi-address>
    <ifl-type>ifl-type</ifl-type>
    <service-bundle>service-bundle</service-bundle>
    <nas-ipv6-address>nas-ipv6-address</nas-ipv6-address>
    <framed-ipv6-prefix>framed-ipv6-prefix</framed-ipv6-prefix>
    <login-ipv6-host>login-ipv6-host</login-ipv6-host>
    <delegated-ipv6-prefix>delegated-ipv6-prefix</delegated-ipv6-prefix>
    <framed-interface-id>framed-interface-id</framed-interface-id>
    <framed-ipv6-pool>framed-ipv6-pool</framed-ipv6-pool>
    <aggregate-type>aggregate-type</aggregate-type>
    <logical-interface>logical-interface</logical-interface>
    <accounting-type>accounting-type</accounting-type>
    <accounting-interval>accounting-interval</accounting-interval>
    <state>state</state>
    <dynamic-configuration-info>...</dynamic-configuration-info>
    <session-ids>...</session-ids>
  </client-session-info>
</dynamic-configuration-information>
```

Description Client session information.

Contents <accounting-interval>—Accounting interval.

<accounting-session-id>—Radius accounting session ID.

<accounting-type>—Accounting type.

<address-pool>—Address pool name.

<aggregate-type>—Multi-client Logical Interface.

<client-session-type>—Session type.

<delegated-ipv6-prefix>—Delegated Ipv6 Prefix.

<dhcp-gi-address>—DHCP relay agent IP address.

<dynamic-configuration-info>—Dynamic configuration.

<framed-interface-id>—Framed Interface Id.

<framed-ipv6-pool>—Framed Ipv6 Pool.

<framed-ipv6-prefix>—Framed Ipv6 Prefix.

<ifl-type>—IFL type.

<interface>—Interface name.

<ip-address>—IP address.

<ip-address-mask>—IP netmask.

<ipv6-address>—IPv6 address.

<ipv6-address-mask>—IPv6 netmask.

<logical-interface>—Underlying logical-interface name.

<logical-system>—Logical system name.

<login-ipv6-host>—Login Ipv6 Host.

<mac-address>—MAC address.

<nas-ipv6-address>—Nas Ipv6 Address.

<nas-port-type>—NAS port type.

<profile>—Profile name.

<routing-instance>—Routing instance name.

<service-bundle>—Service bundle.

<session-id>—Session ID.

<session-ids>—Session IDs.

<state>—State.

<user-name>—User name.

<connection>

Usage

```
<user>
  <connection>
    <peer-name>peer-name</peer-name>
    <connection-status>connection-status</connection-status>
    <socket>...</socket>
    <queue>...</queue>
  </connection>
</user>
```

Description No documentation is available yet.

Contents <connection-status>—Connection status.

<peer-name>—Peer name.

<queue>—No documentation is available yet.

<socket>—No documentation is available yet.

<consumer-message-counters>

Usage

```
<user>
  <consumer-message-counters>
    <msg-received>msg-received</msg-received>
    <ack-sent>ack-sent</ack-sent>
    <nak-sent>nak-sent</nak-sent>
  </consumer-message-counters>
</user>
```

Description No documentation is available yet.

Contents <ack-sent>—ACKs sent.

<msg-received>—Messages received.

<nak-sent>—NAKs sent.

<dynamic-configuration-attribute>

Usage

```
<dynamic-configuration-info>
  <dynamic-configuration-attribute>
    <attribute-name>attribute-name</attribute-name>
    <attribute-value>attribute-value</attribute-value>
  </dynamic-configuration-attribute>
</dynamic-configuration-info>
```

Description Dynamic configuration attribute.

Contents <attribute-name>—Dynamic configuration attribute name.

<attribute-value>—Dynamic configuration attribute value.

<dynamic-configuration-info>

Usage
```
<client-session-info | service-session-info>
  <dynamic-configuration-info>
    <dynamic-configuration-attribute>...</dynamic-configuration-attribute>
  </dynamic-configuration-info>
</client-session-info | service-session-info>
```

Description Dynamic configuration.

Contents <dynamic-configuration-attribute>—Dynamic configuration attribute.

<dynamic-configuration-information>

Usage
```
<rpc-reply>
  <dynamic-configuration-information>
    <session-ids>...</session-ids>
    <client-session-info>...</client-session-info>
    <service-session-info>...</service-session-info>
    <results>...</results>
    <profile-results>...</profile-results>
  </dynamic-configuration-information>
</rpc-reply>
```

Description Dynamic configuration command information.

Contents <client-session-info>—Client session information.

<profile-results>—No documentation is available yet.

<results>—Result for dynamic configuration operation command.

<service-session-info>—Service session information.

<session-ids>—Session IDs.

<performance-counters>

Usage

```
<user>
  <performance-counters>
    <socket-received>socket-received</socket-received>
    <socket-sent>socket-sent</socket-sent>
    <socket-errors>socket-errors</socket-errors>
    <ipc-received>ipc-received</ipc-received>
    <ipc-sent>ipc-sent</ipc-sent>
    <ipc-errors>ipc-errors</ipc-errors>
  </performance-counters>
</user>
```

Description No documentation is available yet.

Contents <ipc-errors>—Errors reveiving management datagrams.

<ipc-received>—Management datagrams received.

<ipc-sent>—Management datagrams sent.

<socket-errors>—Socket errors.

<socket-received>—Socket messages received.

<socket-sent>—Socket messages sent.

<producer-message-counters>

Usage

```
<user>
  <producer-message-counters>
    <msg-sent>msg-sent</msg-sent>
    <ack-received>ack-received</ack-received>
    <nak-received>nak-received</nak-received>
    <backpressure>backpressure</backpressure>
  </producer-message-counters>
</user>
```

Description No documentation is available yet.

Contents <ack-received>—ACKs received.

<backpressure>—Backpressure.

<msg-sent>—Messages sent.

<nak-received>—NAKs received.

<profile-results>

Usage

```
<dynamic-configuration-information>
  <profile-results>
    <profile-name>profile-name</profile-name>
    <profile-action>profile-action</profile-action>
    <session-id>session-id</session-id>
    <session-type>session-type</session-type>
    <request-result>request-result</request-result>
    <failure-reason>failure-reason</failure-reason>
  </profile-results>
</dynamic-configuration-information>
```

Description No documentation is available yet.

Contents <failure-reason>—Problem collecting shm-ipc data.

<profile-action>—No documentation is available yet.

<profile-name>—No documentation is available yet.

<request-result>—No documentation is available yet.

<session-id>—Session ID.

<session-type>—Session type if provide in command request.

<queue>

Usage

```
<connection>
  <queue>
    <msg-complete>msg-complete</msg-complete>
    <msg-posted>msg-posted</msg-posted>
    <msg-pending>msg-pending</msg-pending>
    <msg-held>msg-held</msg-held>
  </queue>
</connection>
```

Description No documentation is available yet.

Contents <msg-complete>—Messages complete.

<msg-held>—Messages being held.

<msg-pending>—Messages pending.

<msg-posted>—Messages posted.

<results>

Usage

```
<dynamic-configuration-information>
  <results>
    <action>action</action>
    <session-type>session-type</session-type>
    <session-id>session-id</session-id>
    <success/>
    <failure>failure</failure>
  </results>
</dynamic-configuration-information>
```

Description Result for dynamic configuration operation command.

Contents <action>—Dynamic configuration action.

<failure>—Dynamic configuration operation failed.

<session-id>—Session ID.

<session-type>—Session type if provide in command request.

<success>—Dynamic configuration operation succeed.

<service-session-info>

Usage

```
<dynamic-configuration-information>
  <service-session-info>
    <session-id>session-id</session-id>
    <start-time>start-time</start-time>
    <service-name>service-name</service-name>
    <state>state</state>
    <dynamic-configuration-info>...</dynamic-configuration-info>
  </service-session-info>
</dynamic-configuration-information>
```

Description Service session information.

Contents <dynamic-configuration-info>—Dynamic configuration.

<service-name>—Service name.

<session-id>—Session ID.

<start-time>—Time when the client logged in, in the format YY-MM-DD hh:mm:ss.

<state>—State.

<session-ids>

Usage
```
<dynamic-configuration-information | client-session-info>
  <session-ids>
    <session-id>session-id</session-id>
  </session-ids>
</dynamic-configuration-information | client-session-info>
```

Description Session IDs.

Contents <session-id>—Session ID.

<shm-ipc-statistics>

Usage
```
<rpc-reply>
  <shm-ipc-statistics>
    <user>...</user>
    <failure-reason>failure-reason</failure-reason>
  </shm-ipc-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <failure-reason>—Problem collecting shm-ipc data.

<user>—No documentation is available yet.

<socket>

Usage
```
<connection>
  <socket>
    <consumer-received>consumer-received</consumer-received>
    <consumer-sent>consumer-sent</consumer-sent>
    <producer-received>producer-received</producer-received>
    <producer-sent>producer-sent</producer-sent>
  </socket>
</connection>
```

Description No documentation is available yet.

Contents <consumer-received>—Socket notifications received by consumer.

<consumer-sent>—Socket notifications sent by consumer.

<producer-received>—Socket notifications received by producer.

<producer-sent>—Socket notifications sent by producer.

<tracelog-data>

Usage

```
<rpc-reply>
  <tracelog-data>
    <tracelog-entry>...</tracelog-entry>
  </tracelog-data>
</rpc-reply>
```

Description No documentation is available yet.

Contents <tracelog-entry>—No documentation is available yet.

<tracelog-data-performance>

Usage

```
<rpc-reply>
  <tracelog-data-performance>
    <tracelog-entry-performance>...</tracelog-entry-performance>
  </tracelog-data-performance>
</rpc-reply>
```

Description No documentation is available yet.

Contents <tracelog-entry-performance>—No documentation is available yet.

<tracelog-entry>

Usage

```
<tracelog-data>
  <tracelog-entry>
    <log-prefix>log-prefix</log-prefix>
    <index>index</index>
    <process-id>process-id</process-id>
    <thread-id>thread-id</thread-id>
    <entry-delta-seconds>entry-delta-seconds</entry-delta-seconds>
    <entry-delta-microseconds>entry-delta-microseconds</entry-delta-microseconds>
    <running-time-seconds>running-time-seconds</running-time-seconds>
    <running-time-microseconds>running-time-microseconds
                    </running-time-microseconds>
    <system-time-seconds>system-time-seconds</system-time-seconds>

<system-time-microseconds>system-time-microseconds</system-time-microseconds>
    <logged-data>logged-data</logged-data>
  </tracelog-entry>
</tracelog-data>
```

Description No documentation is available yet.

Contents

<entry-delta-microseconds>—Delta microseconds since last entry.

<entry-delta-seconds>—Delta seconds since last entry.

<index>—Log entry index.

<log-prefix>—User defined log prefix.

<logged-data>—User specified information to be logged.

<process-id>—Process that logged entry.

<running-time-microseconds>—Microseconds since first entry.

<running-time-seconds>—Seconds since first entry.

<system-time-microseconds>—Microseconds part of system time.

<system-time-seconds>—Seconds part of system time.

<thread-id>—Thread that logged entry.

<tracelog-entry-performance>

Usage

```
<tracelog-data-performance>
  <tracelog-entry-performance>
    <log-prefix-perf>log-prefix-perf</log-prefix-perf>
    <index-perf>index-perf</index-perf>
    <process-id-perf>process-id-perf</process-id-perf>
    <thread-id-perf>thread-id-perf</thread-id-perf>
    <entry-delta-seconds-perf>entry-delta-seconds-perf</entry-delta-seconds-perf>
    <entry-delta-microseconds-perf>entry-delta-microseconds-perf
                </entry-delta-microseconds-perf>
    <running-time-seconds-perf>running-time-seconds-perf
                </running-time-seconds-perf>
    <running-time-microseconds-perf>running-time-microseconds-perf
                </running-time-microseconds-perf>
    <user-cpu-seconds-perf>user-cpu-seconds-perf</user-cpu-seconds-perf>
    <user-cpu-microseconds-perf>user-cpu-microseconds-perf
                </user-cpu-microseconds-perf>
    <system-cpu-seconds-perf>system-cpu-seconds-perf</system-cpu-seconds-perf>
    <system-cpu-microseconds-perf>system-cpu-microseconds-perf
                </system-cpu-microseconds-perf>
    <system-time-seconds-perf>system-time-seconds-perf</system-time-seconds-perf>
    <system-time-microseconds-perf>system-time-microseconds-perf
                </system-time-microseconds-perf>
    <vol-ctxsw-perf>vol-ctxsw-perf</vol-ctxsw-perf>
    <ivol-ctxsw-perf>ivol-ctxsw-perf</ivol-ctxsw-perf>
    <logged-data-perf>logged-data-perf</logged-data-perf>
  </tracelog-entry-performance>
</tracelog-data-performance>
```

Description No documentation is available yet.

Contents <entry-delta-microseconds-perf>—No documentation is available yet.

<entry-delta-seconds-perf>—No documentation is available yet.

<index-perf>—No documentation is available yet.

<ivol-ctxsw-perf>—No documentation is available yet.

<log-prefix-perf>—No documentation is available yet.

<logged-data-perf>—No documentation is available yet.

<process-id-perf>—No documentation is available yet.

<running-time-microseconds-perf>—No documentation is available yet.

<running-time-seconds-perf>—No documentation is available yet.

<system-cpu-microseconds-perf>—No documentation is available yet.

<system-cpu-seconds-perf>—No documentation is available yet.

<system-time-microseconds-perf>—No documentation is available yet.

<system-time-seconds-perf>—No documentation is available yet.

<thread-id-perf>—No documentation is available yet.

<user-cpu-microseconds-perf>—No documentation is available yet.

<user-cpu-seconds-perf>—No documentation is available yet.

<vol-ctxsw-perf>—No documentation is available yet.

<tracelog-information>

Usage

```
<rpc-reply>
  <tracelog-information>
    <tracelog-status-info>...</tracelog-status-info>
  </tracelog-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <tracelog-status-info>—No documentation is available yet.

<tracelog-status-info>

Usage

```
<tracelog-information>
  <tracelog-status-info>
    <log-name>log-name</log-name>
    <max-entries>max-entries</max-entries>
    <cur-index>cur-index</cur-index>
    <max-data>max-data</max-data>
    <wrap-cnt>wrap-cnt</wrap-cnt>
    <wrapable>wrapable</wrapable>
    <frozen>frozen</frozen>
    <collect-perf>collect-perf</collect-perf>
  </tracelog-status-info>
</tracelog-information>
```

Description No documentation is available yet.

Contents <collect-perf>—Indicates whether performance data collection is enabled.

<cur-index>—Next log entry index to be logged.

<frozen>—Indicates whether logging is disabled.

<log-name>—Name of log.

<max-data>—Maximum data items logged in an entry.

<max-entries>—Number of entries log can contain.

<wrap-cnt>—Number of times the logged has wrapped.

<wrapable>—Indicates whether log is allowed to wrap.

<user>

Usage

```
<shm-ipc-statistics>
  <user>
    <name>name</name>
    <role>role</role>
    <status>status</status>
    <performance-counters>...</performance-counters>
    <producer-message-counters>...</producer-message-counters>
    <consumer-message-counters>...</consumer-message-counters>
    <connection>...</connection>
  </user>
</shm-ipc-statistics>
```

Description No documentation is available yet.

Contents

<connection>—No documentation is available yet.

<consumer-message-counters>—No documentation is available yet.

<name>—User name.

<performance-counters>—No documentation is available yet.

<producer-message-counters>—No documentation is available yet.

<role>—User role.

<status>—User status.

Summary of Dynamic Flow Capture Response Tags

This section lists JUNOS XML tags that contain operational information about dynamic flow capture (DFC). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dfc. To review the DTD for the tags, see "DTD for Dynamic Flow Capture Response Tags" on page 2131.

<content-destination-information>

Usage

```
<dfc-information>
  <content-destination-information>
    <capture-group-id>capture-group-id</capture-group-id>
    <content-destination-id>content-destination-id</content-destination-id>
    <criteria>criteria</criteria>
    <bandwidth>bandwidth</bandwidth>
    <average-bandwidth>average-bandwidth</average-bandwidth>
    <matched-packets>matched-packets</matched-packets>
    <matched-bytes>matched-bytes</matched-bytes>
    <dropped-packets>dropped-packets</dropped-packets>
    <congestion-notifications>congestion-notifications</congestion-notifications>
  </content-destination-information>
</dfc-information>
```

Description No documentation is available yet.

Contents

<average-bandwidth>—Average bandwidth.

<bandwidth>—Total bandwidth.

<capture-group-id>—No documentation is available yet.

<congestion-notifications>—Number of congestion notifications.

<content-destination-id>—No documentation is available yet.

<criteria>—Number of criteria.

<dropped-packets>—Number of dropped packets.

<matched-bytes>—Matched bytes processed.

<matched-packets>—Matched packets processed.

<control-source-information>

Usage <dfc-information>

<control-source-information>

<capture-group-id>*capture-group-id*</capture-group-id>
<control-source-id>*control-source-id*</control-source-id>
<criteria-added>*criteria-added*</criteria-added>
<criteria-add-failed>*criteria-add-failed*</criteria-add-failed>
<active-criteria>*active-criteria*</active-criteria>
<active-criteria-static>*active-criteria-static*</active-criteria-static>
<active-criteria-dynamic>*active-criteria-dynamic*</active-criteria-dynamic>
<control-protocol-requests>*control-protocol-requests*
</control-protocol-requests>
<control-protocol-requests-add>*control-protocol-requests-add*
</control-protocol-requests-add>
<control-protocol-requests-delete>*control-protocol-requests-delete*
</control-protocol-requests-delete>
<control-protocol-requests-list>*control-protocol-requests-list*
</control-protocol-requests-list>
<control-protocol-requests-refresh>*control-protocol-requests-refresh*
</control-protocol-requests-refresh>
<control-protocol-requests-noop>*control-protocol-requests-noop*
</control-protocol-requests-noop>
<control-protocol-requests-add-failed>*control-protocol-requests-add-failed*
</control-protocol-requests-add-failed>
<control-protocol-requests-delete-failed>*control-protocol-requests-delete-failed*
</control-protocol-requests-delete-failed>
<control-protocol-requests-list-failed>*control-protocol-requests-list-failed*
</control-protocol-requests-list-failed>
<control-protocol-requests-refresh-failed>*control-protocol-requests-refresh-failed*
</control-protocol-requests-refresh-failed>
<control-protocol-requests-noop-failed>*control-protocol-requests-noop-failed*
</control-protocol-requests-noop-failed>
<add-request-rate>*add-request-rate*</add-request-rate>
<add-request-peak-rate>*add-request-peak-rate*</add-request-peak-rate>
<bandwidth-all>*bandwidth-all*</bandwidth-all>
<notifications>*notifications*</notifications>
<notifications-restart>*notifications-restart*</notifications-restart>
<notifications-rollover>*notifications-rollover*</notifications-rollover>
<notifications-noop>*notifications-noop*</notifications-noop>
<notifications-timeout>*notifications-timeout*</notifications-timeout>
<notifications-congestion>*notifications-congestion*</notifications-congestion>
<notifications-congestion-delete>*notifications-congestion-delete*
</notifications-congestion-delete>
<notifications-dups-dropped>*notifications-dups-dropped*
</notifications-dups-dropped>
<criteria-deleted>*criteria-deleted*</criteria-deleted>
<criteria-deleted-timeout-idle>*criteria-deleted-timeout-idle*
</criteria-deleted-timeout-idle>
<criteria-deleted-timeout-total>*criteria-deleted-timeout-total*
</criteria-deleted-timeout-total>
<criteria-deleted-packets>*criteria-deleted-packets*</criteria-deleted-packets>
<criteria-deleted-bytes>*criteria-deleted-bytes*</criteria-deleted-bytes>
<sequence-number>*sequence-number*</sequence-number>

</control-source-information>
</dfc-information>

Description No documentation is available yet.

Contents <active-criteria>—Total number of active criteria.

<active-criteria-dynamic>—Number of dynamic criteria.

<active-criteria-static>—Number of static criteria.

<add-request-peak-rate>—Peak process rate of add requests.

<add-request-rate>—Process rate of add requests.

<bandwidth-all>—Total bandwidth across all criteria.

<capture-group-id>—No documentation is available yet.

<control-protocol-requests>—Total number of protocol requests.

<control-protocol-requests-add>—Number of add requests.

<control-protocol-requests-add-failed>—Number of failed add requests.

<control-protocol-requests-delete>—Number of delete requests.

<control-protocol-requests-delete-failed>—Number of failed delete requests.

<control-protocol-requests-list>—Number of list requests.

<control-protocol-requests-list-failed>—Number of failed list requests.

<control-protocol-requests-noop>—Number of no-op requests.

<control-protocol-requests-noop-failed>—Number of failed no-op requests.

<control-protocol-requests-refresh>—Number of refresh requests.

<control-protocol-requests-refresh-failed>—Number of failed refresh requests.

<control-source-id>—No documentation is available yet.

<criteria-add-failed>—Number of failures to add criteria.

<criteria-added>—Number of criteria added.

<criteria-deleted>—Number of criteria deleted.

<criteria-deleted-bytes>—Number of criteria deleted by bytes.

<criteria-deleted-packets>—Number of criteria deleted by packets.

<criteria-deleted-timeout-idle>—Number of criteria deleted by timeout idle.

<criteria-deleted-timeout-total>—Number of criteria deleted by timeout total.

<notifications>—Total number of notifications.

<notifications-congestion>—Number of congestion notifications.

<notifications-congestion-delete>—Number of congestion delete notifications.

<notifications-dups-dropped>—Number notifications that duplicate packets were dropped.

<notifications-noop>—Number of no-op notifications.

<notifications-restart>—Number of restart notifications.

<notifications-rollover>—Number of rollover notifications.

<notifications-timeout>—Number of timeout notifications.

<sequence-number>—Protocol sequence number.

<dfc-information>

Usage

```
<rpc-reply>
  <dfc-information>
    <control-source-information>...</control-source-information>
    <content-destination-information>...</content-destination-information>
    <dfc-statistics-information>...</dfc-statistics-information>
  </dfc-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <content-destination-information>—No documentation is available yet.

<control-source-information>—No documentation is available yet.

<dfc-statistics-information>—No documentation is available yet.

<dfc-statistics-information>

Usage

```
<dfc-information>
  <dfc-statistics-information>
    <capture-group-id>capture-group-id</capture-group-id>
    <input-packets-control-protocol>input-packets-control-protocol
                </input-packets-control-protocol>
    <input-packets-cap-data>input-packets-cap-data</input-packets-cap-data>
    <input-packets-control-iri>input-packets-control-iri
                </input-packets-control-iri>
    <input-packets-control-protocol-not-ip>input-packets-control-protocol-not-ip
                </input-packets-control-protocol-not-ip>
    <input-packets-control-protocol-not-udp>input-packets-control-protocol-not-udp
                </input-packets-control-protocol-not-udp>

<input-packets-control-protocol-invalid-dest-ip>input-packets-control-protocol-invalid-dest-ip
                </input-packets-control-protocol-invalid-dest-ip>
    <input-packets-control-protocol-drop-other>input-packets-control-protocol-drop-other
                </input-packets-control-protocol-drop-other>

<input-packets-control-protocol-drop-no-memory>input-packets-control-protocol-drop-no-memory
                </input-packets-control-protocol-drop-no-memory>

<input-packets-control-protocol-drop-unauthorized>input-packets-control-protocol-drop-unauthorized
                </input-packets-control-protocol-drop-unauthorized>

<input-packets-control-protocol-drop-bad-req>input-packets-control-protocol-drop-bad-req
                </input-packets-control-protocol-drop-bad-req>

<input-packets-control-protocol-drop-unknown-control-source>input-packets-control-protocol-drop-unknown-control-source
                </input-packets-control-protocol-drop-unknown-control-source>

<input-packets-control-protocol-drop-not-dtcp>input-packets-control-protocol-drop-not-dtcp
                </input-packets-control-protocol-drop-not-dtcp>

<input-packets-control-protocol-drop-bad-cmdline>input-packets-control-protocol-drop-bad-cmdline
                </input-packets-control-protocol-drop-bad-cmdline>

<input-packets-control-protocol-drop-bandwidth-exceeded>input-packets-control-protocol-drop-bandwidth-exceeded
                </input-packets-control-protocol-drop-bandwidth-exceeded>

<input-packets-control-protocol-drop-rate-bandwidth-exceeded>input-packets-control-protocol-drop-rate-bandwidth-exceeded
                </input-packets-control-protocol-drop-rate-bandwidth-exceeded>
    <input-packets-drop-unknown>input-packets-drop-unknown
                </input-packets-drop-unknown>
    <input-packets-drop-cap-data-not-ipv4>input-packets-drop-cap-data-not-ipv4
```

```
                    </input-packets-drop-cap-data-not-ipv4>
    <input-packets-drop-cap-data-too-small>input-packets-drop-cap-data-too-small
                    </input-packets-drop-cap-data-too-small>
    <input-packets-drop-cap-data-drop>input-packets-drop-cap-data-drop
                    </input-packets-drop-cap-data-drop>
    <input-packets-drop-cap-data-nomatch>input-packets-drop-cap-data-nomatch
                    </input-packets-drop-cap-data-nomatch>
    <input-packets-drop-bandwidth-exceeded>input-packets-drop-bandwidth-exceeded
                    </input-packets-drop-bandwidth-exceeded>

<input-packets-drop-rate-bandwidth-exceeded>input-packets-drop-rate-bandwidth-exceed
ed
                    </input-packets-drop-rate-bandwidth-exceeded>
    <output-packets-control-protocol>output-packets-control-protocol
                    </output-packets-control-protocol>
    <output-packets-cap-data>output-packets-cap-data</output-packets-cap-data>
    <output-packets-drop-control-protocol>output-packets-drop-control-protocol
                    </output-packets-drop-control-protocol>
    <output-packets-drop-cap-data>output-packets-drop-cap-data
                    </output-packets-drop-cap-data>
    <flowstats-active-cache-entries-count>flowstats-active-cache-entries-count
                    </flowstats-active-cache-entries-count>
    <flowstats-active-cache-usage-percentage>flowstats-active-cache-usage-percentage
                    </flowstats-active-cache-usage-percentage>
    <flowstats-cache-entries-allocated>flowstats-cache-entries-allocated
                    </flowstats-cache-entries-allocated>
    <flowstats-control-source-count>flowstats-control-source-count
                    </flowstats-control-source-count>
    <flowstats-content-destination-count>flowstats-content-destination-count
                    </flowstats-content-destination-count>
    <flowstats-criteria-count>flowstats-criteria-count</flowstats-criteria-count>

<flowstats-maximum-criteria-matching-flow>flowstats-maximum-criteria-matching-flow
                    </flowstats-maximum-criteria-matching-flow>
    <flowstats-purged-flows>flowstats-purged-flows</flowstats-purged-flows>

<flowstats-maximum-filter-matching-packet>flowstats-maximum-filter-matching-packet
                    </flowstats-maximum-filter-matching-packet>
  </dfc-statistics-information>
</dfc-information>
```

Description No documentation is available yet.

Contents <capture-group-id>—No documentation is available yet.

<flowstats-active-cache-entries-count>—Number of active flow cache entries.

<flowstats-active-cache-usage-percentage>—Usage percentage of the current active flow cache.

<flowstats-cache-entries-allocated>—Total number of flow cache entries allocated.

<flowstats-content-destination-count>—Number of content destinations in the capture group.

<flowstats-control-source-count>—Number of control sources in the capture group.

<flowstats-criteria-count>—Number of criterias for the capture group.

<flowstats-maximum-criteria-matching-flow>—Maximum criteria matching one flow.

<flowstats-maximum-filter-matching-packet>—Maximum number of filters matched for one packet.

<flowstats-purged-flows>—Cached flows purged for memory.

<input-packets-cap-data>—Number of input captured data packets.

<input-packets-control-iri>—Number of input control IRI packets.

<input-packets-control-protocol>—Number of input control protocol packets.

<input-packets-control-protocol-drop-bad-cmdline>—Control protocol packets dropped with bad command line.

<input-packets-control-protocol-drop-bad-req>—Control protocol packets dropped due to bad request.

<input-packets-control-protocol-drop-bandwidth-exceeded>—Control protocol packets dropped due to exceeded bandwidth.

<input-packets-control-protocol-drop-no-memory>—Control protocol packets dropped due to no memory.

<input-packets-control-protocol-drop-not-dtcp>—Control protocol packets dropped since they are not DTCP.

<input-packets-control-protocol-drop-other>—Control protocol packets dropped with other reasons.

<input-packets-control-protocol-drop-rate-bandwidth-exceeded>—Control protocol packets drop rate due to exceeded bandwidth.

<input-packets-control-protocol-drop-unauthorized>—Control protocol packets dropped since they are unauthorized.

<input-packets-control-protocol-drop-unknown-control-source>—Control protocol packets dropped with unknown control source.

<input-packets-control-protocol-invalid-dest-ip>—Control protocol packets dropped since they have invalid destination IP address.

<input-packets-control-protocol-not-ip>—Control protocol packets dropped since they are not IP packets.

<input-packets-control-protocol-not-udp>—Control protocol packets dropped since they are not UDP packets.

<input-packets-drop-bandwidth-exceeded>—Input packets dropped due to exceeded bandwidth.

<input-packets-drop-cap-data-drop>—Input packets dropped due to captured data dropped.

<input-packets-drop-cap-data-nomatch>—Input packets dropped due to captured data not matched.

<input-packets-drop-cap-data-not-ipv4>—Input packets dropped since they are not IPv4 packets.

<input-packets-drop-cap-data-too-small>—Input packets dropped since they are too small.

<input-packets-drop-rate-bandwidth-exceeded>—Input packets drop rate due to exceeded bandwidth.

<input-packets-drop-unknown>—Input packets dropped since they are unknown packets.

<output-packets-cap-data>—Output captured data packets.

<output-packets-control-protocol>—Output control protocol packets.

<output-packets-drop-cap-data>—Output captured data packets dropped.

<output-packets-drop-control-protocol>—Output control protocol packets dropped.

Summary of Firewall Filter Response Tags

This section lists JUNOS XML tags that contain operational information about firewall filters. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-filter. To review the DTD for the tags, see "DTD for Firewall Filter Response Tags" on page 2137.

<counter>

Usage

```
<filter-information | firewall-prefix-action-information>
  <counter>
    <counter-name>counter-name</counter-name>
    <byte-count>byte-count</byte-count>
    <packet-count>packet-count</packet-count>
  </counter>
</filter-information | firewall-prefix-action-information>
```

Description Counter information.

Contents <byte-count>—Bytes counted.

<counter-name>—Counter name.

<packet-count>—Packets counted.

<filter-information>

Usage

```
<firewall-information>
  <filter-information>
    <filter-name>filter-name</filter-name>
    <counter>...</counter>
    <policer>...</policer>
  </filter-information>
</firewall-information>
```

Description Details of a firewall filter.

Contents <counter>—Counter information.

<filter-name>—Name of filter.

<policer>—Policer information.

<firewall-db-object-counts>

Usage

```
<firewall-db-object-information>
  <firewall-db-object-counts>
    <firewall-db-object-type>firewall-db-object-type</firewall-db-object-type>
    <firewall-db-object-dynamic>firewall-db-object-dynamic
                </firewall-db-object-dynamic>
    <firewall-db-object-config>firewall-db-object-config
                </firewall-db-object-config>
    <firewall-db-object-kernel>firewall-db-object-kernel
                </firewall-db-object-kernel>
  </firewall-db-object-counts>
</firewall-db-object-information>
```

Description No documentation is available yet.

Contents <firewall-db-object-config>—No documentation is available yet.

<firewall-db-object-dynamic>—No documentation is available yet.

<firewall-db-object-kernel>—No documentation is available yet.

<firewall-db-object-type>—No documentation is available yet.

<firewall-db-object-information>

Usage

```
<rpc-reply>
  <firewall-db-object-information>
    <firewall-db-object-counts>...</firewall-db-object-counts>
  </firewall-db-object-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <firewall-db-object-counts>—No documentation is available yet.

<firewall-debug-information>

Usage

```
<rpc-reply>
  <firewall-debug-information>
    <firewall-debug-str>firewall-debug-str</firewall-debug-str>
  </firewall-debug-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <firewall-debug-str>—No documentation is available yet.

<firewall-emalloc-information>

Usage
```
<rpc-reply>
  <firewall-emalloc-information>
    <firewall-emalloc-stats>...</firewall-emalloc-stats>
  </firewall-emalloc-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <firewall-emalloc-stats>—No documentation is available yet.

<firewall-emalloc-stats>

Usage
```
<firewall-emalloc-information>
  <firewall-emalloc-stats>
    <firewall-emalloc-phase>firewall-emalloc-phase</firewall-emalloc-phase>
    <firewall-emalloc-type>firewall-emalloc-type</firewall-emalloc-type>
    <firewall-emalloc-num-times>firewall-emalloc-num-times
                </firewall-emalloc-num-times>
    <firewall-emalloc-max-alloced>firewall-emalloc-max-alloced
                </firewall-emalloc-max-alloced>
  </firewall-emalloc-stats>
</firewall-emalloc-information>
```

Description No documentation is available yet.

Contents <firewall-emalloc-max-alloced>—No documentation is available yet.

<firewall-emalloc-num-times>—No documentation is available yet.

<firewall-emalloc-phase>—No documentation is available yet.

<firewall-emalloc-type>—No documentation is available yet.

<firewall-information>

Usage
```
<rpc-reply>
  <firewall-information>
    <filter-information>...</filter-information>
  </firewall-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <filter-information>—Details of a firewall filter.

<firewall-log-information>

Usage

```
<rpc-reply>
  <firewall-log-information>
    <log-information>...</log-information>
  </firewall-log-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <log-information>—Details of a single firewall log entry.

<firewall-prefix-action-information>

Usage

```
<rpc-reply>
  <firewall-prefix-action-information>
    <filter-name>filter-name</filter-name>
    <counter>...</counter>
    <policer>...</policer>
  </firewall-prefix-action-information>
</rpc-reply>
```

Description Display prefix specific counter and policer statistics for a filter.

Contents <counter>—Counter information.

<filter-name>—Name of filter.

<policer>—Policer information.

<log-information>

Usage
```
<firewall-log-information>
  <log-information>
    <time>time</time>
    <filter-name>filter-name</filter-name>
    <action-name>action-name</action-name>
    <interface-name>interface-name</interface-name>
    <protocol-name>protocol-name</protocol-name>
    <source-address>source-address</source-address>
    <destination-address>destination-address</destination-address>
    <packet-length>packet-length</packet-length>
    <icmp-type>icmp-type</icmp-type>
    <icmp-code>icmp-code</icmp-code>
  </log-information>
</firewall-log-information>
```

Description Details of a single firewall log entry.

Contents <action-name>—Filter action.

<destination-address>—Destination address.

<filter-name>—Name of filter.

<icmp-code>—ICMP code.

<icmp-type>—ICMP type.

<interface-name>—Name of interface.

<packet-length>—Packet length.

<protocol-name>—Name of protocol.

<source-address>—Source address.

<time>—Time of log.

<policer>

Usage
```
<filter-information | firewall-prefix-action-information>
  <policer>
    <policer-name>policer-name</policer-name>
    <packet-count>packet-count</packet-count>
  </policer>
</filter-information | firewall-prefix-action-information>
```

Description Policer information.

Contents <packet-count>—Packets counted.

<policer-name>—Name of this policer.

Summary of Graceful Switchover Response Tags

This section lists JUNOS XML tags that contain operational information about graceful Routing Engine switchover. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-switchover. To review the DTD for the tags, see "DTD for Graceful Switchover Response Tags" on page 2141.

<configuration-state>

Usage

```
<switchover-information>
  <configuration-state>
    <configuration-ready/>
    <configuration-synchronizing/>
    <configuration-synchronize-error/>
  </configuration-state>
</switchover-information>
```

Description No documentation is available yet.

Contents <configuration-ready>—Configuration database is synchronized with master.

<configuration-synchronize-error>—Failure during configuration database synchronize.

<configuration-synchronizing>—Synchronizing configuration database with master.

<multi-routing-engine-item>

Usage

```
<multi-routing-engine-results>
  <multi-routing-engine-item>
    <re-name>re-name</re-name>
    <switchover-information>...</switchover-information>
  </multi-routing-engine-item>
</multi-routing-engine-results>
```

Description No documentation is available yet.

Contents <re-name>—No documentation is available yet.

<switchover-information>—No documentation is available yet.

<multi-routing-engine-results>

Usage

```
<rpc-reply>
  <multi-routing-engine-results>
    <multi-routing-engine-item>...</multi-routing-engine-item>
  </multi-routing-engine-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multi-routing-engine-item>—No documentation is available yet.

<peer-transition-state>

Usage

```
<switchover-information>
  <peer-transition-state>
    <peer-connected/>
    <peer-in-steady-state/>
  </peer-transition-state>
</switchover-information>
```

Description No documentation is available yet.

Contents <peer-connected>—Peer in switchover transition.

<peer-in-steady-state>—Peer completed switchover transition.

<replication-state>

Usage

```
<switchover-information>
  <replication-state>
    <replication-ready/>
    <replication-synchronizing/>
    <replication-error/>
    <replication-version-mismatch/>
    <replication-connection-error/>
    <replication-reconnect-error/>
    <replication-init-error/>
  </replication-state>
</switchover-information>
```

Description No documentation is available yet.

Contents <replication-connection-error>—Master connection error.

<replication-error>—Replicated and master kernels do not have identical state.

<replication-init-error>—Error during initialization.

<replication-ready>—Replicated kernel state is synchronized with master.

<replication-reconnect-error>—Reconnect to master failed.

<replication-synchronizing>—Replicated kernel is receiving state updates from master.

<replication-version-mismatch>—Replicated and master kernels running incompatible versions.

<switchover-information>

Usage

```
<multi-routing-engine-item>
  <switchover-information>
    <switchover-state>switchover-state</switchover-state>
    <switchover-mode>...</switchover-mode>
    <configuration-state>...</configuration-state>
    <replication-state>...</replication-state>
    <peer-transition-state>...</peer-transition-state>
  </switchover-information>
</multi-routing-engine-item>
```

Description No documentation is available yet.

Contents <configuration-state>—No documentation is available yet.

<peer-transition-state>—No documentation is available yet.

<replication-state>—No documentation is available yet.

<switchover-mode>—No documentation is available yet.

<switchover-state>—No documentation is available yet.

<switchover-mode>

Usage

```
<switchover-information>
  <switchover-mode>
    <multichassis-mode/>
    <gres-mode/>
    <unknown-mode/>
  </switchover-mode>
</switchover-information>
```

Description No documentation is available yet.

Contents <gres-mode>—Kernel replication for graceful switchover.

<multichassis-mode>—Kernel replication for multichassis.

<unknown-mode>—Kernel replication for unknown mode.

Summary of GRES Test Point Tags

This section lists JUNOS XML tags that contain operational information about GRES test piont response tags. The associated XML namespace is http://xml.juniper.net/junos/9.5R1/junos-gres-test-point. To review the DTD for the tags, see "DTD for GRES Test Point Response Tags" on page 2139.

<actions>

Usage

```
<test-point>
  <actions>
    <trigger-after>trigger-after</trigger-after>
    <delay>delay</delay>
    <trigger-count>trigger-count</trigger-count>
    <hold-database>hold-database</hold-database>
    <kernel-panic/>
    <daemon-restart/>
  </actions>
</test-point>
```

Description No documentation is available yet.

Contents <daemon-restart>—Force daemon restart.

<delay>—Number of seconds to stall the program.

<hold-database>—Replicated configuration databases to hold.

<kernel-panic>—Force kernel panic.

<trigger-after>—Number of times test point should be hit before activation.

<trigger-count>—Number of times for test point to be hit before activation.

<gres-test-point-error>

Usage

```
<gres-test-point-information>
  <gres-test-point-error>
    <message>message</message>
  </gres-test-point-error>
</gres-test-point-information>
```

Description Command failure message.

Contents <message>—No documentation is available yet.

<gres-test-point-information>

Usage

```
<rpc-reply>
  <gres-test-point-information>
    <gres-test-point-list>...</gres-test-point-list>
    <gres-test-point-error>...</gres-test-point-error>
  </gres-test-point-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <gres-test-point-error>—Command failure message.

<gres-test-point-list>—Test point information.

<gres-test-point-list>

Usage

```
<gres-test-point-information>
  <gres-test-point-list>
    <test-point>...</test-point>
  </gres-test-point-list>
</gres-test-point-information>
```

Description Test point information.

Contents <test-point>—Test point instance.

<test-point>

Usage

```
<gres-test-point-list>
  <test-point>
    <id>id</id>
    <description>description</description>
    <state>state</state>
    <hit-count>hit-count</hit-count>
    <actions>...</actions>
  </test-point>
</gres-test-point-list>
```

Description Test point instance.

Contents <actions>—No documentation is available yet.

<description>—Test point description.

<hit-count>—Number of times test point has been reached.

<id>—Test point ID.

<state>—State.

Summary of IDP Response Tags

This section lists JUNOS XML tags that contain operational information about IDP. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-idp. To review the DTD for the tags, see "DTD for IDP Response Tags" on page 2205.

<clear-idp-ssl-session-cache-information>

Usage

```
<rpc-reply>
  <clear-idp-ssl-session-cache-information>
    <cleared-ssl-session-cache-count>cleared-ssl-session-cache-count
                </cleared-ssl-session-cache-count>
  </clear-idp-ssl-session-cache-information>
</rpc-reply>
```

Description Information about cleared SSL session cache entries.

Contents <cleared-ssl-session-cache-count>—Number of SSL session cache entries cleared.

<get-idp-ssl-session-cache-information>

Usage

```
<rpc-reply>
  <get-idp-ssl-session-cache-information>
    <idp-ssl-session-cache-count>idp-ssl-session-cache-count
                </idp-ssl-session-cache-count>
    <idp-ssl-session-cache-entry>...</idp-ssl-session-cache-entry>
  </get-idp-ssl-session-cache-information>
</rpc-reply>
```

Description Information about SSL session cache table.

Contents <idp-ssl-session-cache-count>—Number of SSL session cache entries.

<idp-ssl-session-cache-entry>—Information about SSL session cache entry.

<idp-anomaly>

Usage

```
<idp-anomaly-list>
  <idp-anomaly>
    <attack-service-name>attack-service-name</attack-service-name>
    <service-id>service-id</service-id>
    <attack-name>attack-name</attack-name>
    <attack-id>attack-id</attack-id>
  </idp-anomaly>
</idp-anomaly-list>
```

Description No documentation is available yet.

Contents <attack-id>—IDP Attack Id .

<attack-name>—IDP Attack name.

<attack-service-name>—IDP Service name.

<service-id>—IDP Service Id.

<idp-anomaly-list>

Usage

```
<rpc-reply>
  <idp-anomaly-list>
    <idp-anomaly>...</idp-anomaly>
  </idp-anomaly-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-anomaly>—No documentation is available yet.

<idp-application-statistics>

Usage

```
<idp-application-statistics-information>
  <idp-application-statistics>
    <name>name</name>
    <value>value</value>
  </idp-application-statistics>
</idp-application-statistics-information>
```

Description No documentation is available yet.

Contents <name>—Name of this component.

<value>—Value of this entity.

<idp-application-statistics-information>

Usage
```
<rpc-reply>
  <idp-application-statistics-information>
    <idp-application-statistics>...</idp-application-statistics>
  </idp-application-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-application-statistics>—No documentation is available yet.

<idp-application-system-cache-information>

Usage
```
<rpc-reply>
  <idp-application-system-cache-information>
    <idp-application-system-cache-statistics>...
                    </idp-application-system-cache-statistics>
  </idp-application-system-cache-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-application-system-cache-statistics>—No documentation is available yet.

<idp-application-system-cache-statistics>

Usage
```
<idp-application-system-cache-information>
  <idp-application-system-cache-statistics>
    <virtual-system-identifier>virtual-system-identifier
                    </virtual-system-identifier>
    <ip-address>ip-address</ip-address>
    <port>port</port>
    <protocol>protocol</protocol>
    <idp-service>idp-service</idp-service>
  </idp-application-system-cache-statistics>
</idp-application-system-cache-information>
```

Description No documentation is available yet.

Contents <idp-service>—IDP service type.

<ip-address>—IP address.

<port>—Application identification port.

<protocol>—IP protocol.

<virtual-system-identifier>—Virtual system identifier.

<idp-attack-groups>

Usage
```
<idp-predefined-attack-groups>
  <idp-attack-groups>
    <name>name</name>
  </idp-attack-groups>
</idp-predefined-attack-groups>
```

Description No documentation is available yet.

Contents <name>—Name of this component.

<idp-attack-information>

Usage
```
<rpc-reply>
  <idp-attack-information>
    <idp-attack-statistics>...</idp-attack-statistics>
  </idp-attack-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-attack-statistics>—No documentation is available yet.

<idp-attack-statistics>

Usage
```
<idp-attack-information>
  <idp-attack-statistics>
    <name>name</name>
    <value>value</value>
  </idp-attack-statistics>
</idp-attack-information>
```

Description No documentation is available yet.

Contents <name>—Name of this component.

<value>—Value of this entity.

<idp-attacks-list>

Usage
```
<idp-predefined-attacks>
  <idp-attacks-list>
    <name>name</name>
  </idp-attacks-list>
</idp-predefined-attacks>
```

Description No documentation is available yet.

Contents <name>—Name of this component.

<idp-cache-aggregate-statistics>

Usage

```
<idp-cache-statistics>
  <idp-cache-aggregate-statistics>
    <total-memory-used>total-memory-used</total-memory-used>
    <cache-entries>cache-entries</cache-entries>
    <single-rules>single-rules</single-rules>
    <multiple-rules>multiple-rules</multiple-rules>
  </idp-cache-aggregate-statistics>
</idp-cache-statistics>
```

Description No documentation is available yet.

Contents <cache-entries>—No documentation is available yet.

<multiple-rules>—No documentation is available yet.

<single-rules>—No documentation is available yet.

<total-memory-used>—No documentation is available yet.

<idp-cache-rule>

Usage

```
<idp-cache-rule-statistics>
  <idp-cache-rule>
    <rule-pointer>rule-pointer</rule-pointer>
    <rule-number>rule-number</rule-number>
    <idp-service>idp-service</idp-service>
    <protocol>protocol</protocol>
    <direction>direction</direction>
    <auxiliary-flow>auxiliary-flow</auxiliary-flow>
    <line-separator>line-separator</line-separator>
    <memory-bytes>memory-bytes</memory-bytes>
  </idp-cache-rule>
</idp-cache-rule-statistics>
```

Description No documentation is available yet.

Contents <auxiliary-flow>—No documentation is available yet.

<direction>—Flow direction.

<idp-service>—IDP service type.

<line-separator>—No documentation is available yet.

<memory-bytes>—No documentation is available yet.

<protocol>—IP protocol.

<rule-number>—No documentation is available yet.

<rule-pointer>—No documentation is available yet.

<idp-cache-rule-statistics>

Usage
```
<idp-cache-statistics>
  <idp-cache-rule-statistics>
    <idp-cache-rule>...</idp-cache-rule>
  </idp-cache-rule-statistics>
</idp-cache-statistics>
```

Description No documentation is available yet.

Contents <idp-cache-rule>—No documentation is available yet.

<idp-cache-service>

Usage
```
<idp-cache-service-memory-statistics>
  <idp-cache-service>
    <idp-service>idp-service</idp-service>
    <memory-in-kb>memory-in-kb</memory-in-kb>
  </idp-cache-service>
</idp-cache-service-memory-statistics>
```

Description No documentation is available yet.

Contents <idp-service>—IDP service type.

<memory-in-kb>—No documentation is available yet.

<idp-cache-service-memory-statistics>

Usage
```
<idp-cache-statistics>
  <idp-cache-service-memory-statistics>
    <idp-cache-service>...</idp-cache-service>
  </idp-cache-service-memory-statistics>
</idp-cache-statistics>
```

Description No documentation is available yet.

Contents <idp-cache-service>—No documentation is available yet.

<idp-cache-statistics>

Usage

```
<rpc-reply>
  <idp-cache-statistics>
    <idp-cache-rule-statistics>...</idp-cache-rule-statistics>
    <idp-cache-service-memory-statistics>...</idp-cache-service-memory-statistics>
    <idp-cache-aggregate-statistics>...</idp-cache-aggregate-statistics>
  </idp-cache-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-cache-aggregate-statistics>—No documentation is available yet.

<idp-cache-rule-statistics>—No documentation is available yet.

<idp-cache-service-memory-statistics>—No documentation is available yet.

<idp-context-list>

Usage

```
<rpc-reply>
  <idp-context-list>
    <idp-contexts>...</idp-contexts>
  </idp-context-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-contexts>—No documentation is available yet.

<idp-contexts>

Usage

```
<idp-context-list>
  <idp-contexts>
    <service-name>service-name</service-name>
    <context-name>context-name</context-name>
    <offset-id>offset-id</offset-id>
    <context-direction>context-direction</context-direction>
  </idp-contexts>
</idp-context-list>
```

Description No documentation is available yet.

Contents <context-direction>—Direction .

<context-name>—IDP Context Name.

<offset-id>—IDP OffID.

<service-name>—IDP Service name.

<idp-counter-information>

Usage

```
<rpc-reply>
  <idp-counter-information>
    <idp-counter-statistics>...</idp-counter-statistics>
  </idp-counter-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-counter-statistics>—No documentation is available yet.

<idp-counter-statistics>

Usage

```
<idp-counter-information>
  <idp-counter-statistics>
    <name>name</name>
    <value>value</value>
  </idp-counter-statistics>
</idp-counter-information>
```

Description No documentation is available yet.

Contents <name>—Name of this component.

<value>—Value of this entity.

<idp-icmp-flow-count>

Usage

```
<idp-status-information>
  <idp-icmp-flow-count>
    <current-icmp-flow-count>current-icmp-flow-count</current-icmp-flow-count>

<maximum-icmp-flow-count>maximum-icmp-flow-count</maximum-icmp-flow-count>
    <maximum-icmp-flow-count-time>maximum-icmp-flow-count-time
                </maximum-icmp-flow-count-time>
    <date-time>date-time</date-time>
  </idp-icmp-flow-count>
</idp-status-information>
```

Description No documentation is available yet.

Contents <current-icmp-flow-count>—No documentation is available yet.

<date-time>—IDP peak packets(or Kbits) per second.

<maximum-icmp-flow-count>—No documentation is available yet.

<maximum-icmp-flow-count-time>—No documentation is available yet.

<idp-kbits-per-second-information>

Usage

```
<idp-status-information>
  <idp-kbits-per-second-information>
    <idp-kbits-per-second>idp-kbits-per-second</idp-kbits-per-second>
    <idp-peak-kbits-per-second>idp-peak-kbits-per-second
                    </idp-peak-kbits-per-second>
    <date-time>date-time</date-time>
  </idp-kbits-per-second-information>
</idp-status-information>
```

Description No documentation is available yet.

Contents <date-time>—IDP peak packets(or Kbits) per second.

<idp-kbits-per-second>—No documentation is available yet.

<idp-peak-kbits-per-second>—No documentation is available yet.

<idp-latency>

Usage

```
<idp-status-information>
  <idp-latency>
    <minimum-latency-time>minimum-latency-time</minimum-latency-time>
    <maximum-latency-time>maximum-latency-time</maximum-latency-time>
    <average-latency-time>average-latency-time</average-latency-time>
  </idp-latency>
</idp-status-information>
```

Description No documentation is available yet.

Contents <average-latency-time>—No documentation is available yet.

<maximum-latency-time>—No documentation is available yet.

<minimum-latency-time>—No documentation is available yet.

<idp-memory-information>

Usage

```
<rpc-reply>
  <idp-memory-information>
    <idp-memory-per-spu-information>...</idp-memory-per-spu-information>
  </idp-memory-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-memory-per-spu-information>—No documentation is available yet.

<idp-memory-per-spu-information>

Usage

```
<idp-memory-information>
  <idp-memory-per-spu-information>
    <pic-name>pic-name</pic-name>
    <total-idp-data-plane-memory-in-mb>total-idp-data-plane-memory-in-mb
                </total-idp-data-plane-memory-in-mb>
    <total-idp-data-plane-memory-used-in-mb>total-idp-data-plane-memory-used-in-mb
                </total-idp-data-plane-memory-used-in-mb>
    <total-idp-data-plane-memory-used-in-kb>total-idp-data-plane-memory-used-in-kb
                </total-idp-data-plane-memory-used-in-kb>

<total-idp-data-plane-memory-available-in-mb>total-idp-data-plane-memory-available-in-m
b
                </total-idp-data-plane-memory-available-in-mb>

<total-idp-data-plane-memory-available-in-kb>total-idp-data-plane-memory-available-in-kb
                </total-idp-data-plane-memory-available-in-kb>
  </idp-memory-per-spu-information>
</idp-memory-information>
```

Description No documentation is available yet.

Contents <pic-name>—Pic name.

<total-idp-data-plane-memory-available-in-kb>—No documentation is available yet.

<total-idp-data-plane-memory-available-in-mb>—No documentation is available yet.

<total-idp-data-plane-memory-in-mb>—No documentation is available yet.

<total-idp-data-plane-memory-used-in-kb>—No documentation is available yet.

<total-idp-data-plane-memory-used-in-mb>—No documentation is available yet.

<idp-mode>

Usage

```
<rpc-reply>
  <idp-mode>
    <idp-forwarding-process-mode>idp-forwarding-process-mode
                </idp-forwarding-process-mode>
  </idp-mode>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-forwarding-process-mode>—IDP forwarding process mode.

<idp-other-flow-count>

Usage

```
<idp-status-information>
  <idp-other-flow-count>
    <current-other-flow-count>current-other-flow-count</current-other-flow-count>

<maximum-other-flow-count>maximum-other-flow-count</maximum-other-flow-count>
    <maximum-other-flow-count-time>maximum-other-flow-count-time
                </maximum-other-flow-count-time>
    <date-time>date-time</date-time>
  </idp-other-flow-count>
</idp-status-information>
```

Description No documentation is available yet.

Contents <current-other-flow-count>—No documentation is available yet.

<date-time>—IDP peak packets(or Kbits) per second.

<maximum-other-flow-count>—No documentation is available yet.

<maximum-other-flow-count-time>—No documentation is available yet.

<idp-packet-count>

Usage

```
<idp-status-information>
  <idp-packet-count>
    <icmp-packet-count>icmp-packet-count</icmp-packet-count>
    <tcp-packet-count>tcp-packet-count</tcp-packet-count>
    <udp-packet-count>udp-packet-count</udp-packet-count>
    <other-packet-count>other-packet-count</other-packet-count>
  </idp-packet-count>
</idp-status-information>
```

Description No documentation is available yet.

Contents <icmp-packet-count>—No documentation is available yet.

<other-packet-count>—No documentation is available yet.

<tcp-packet-count>—No documentation is available yet.

<udp-packet-count>—No documentation is available yet.

<idp-packets-per-second-information>

Usage

```
<idp-status-information>
  <idp-packets-per-second-information>
    <idp-packets-per-second>idp-packets-per-second</idp-packets-per-second>
    <idp-peak-packets-per-second>idp-peak-packets-per-second
                    </idp-peak-packets-per-second>
    <date-time>date-time</date-time>
  </idp-packets-per-second-information>
</idp-status-information>
```

Description No documentation is available yet.

Contents <date-time>—IDP peak packets(or Kbits) per second.

<idp-packets-per-second>—No documentation is available yet.

<idp-peak-packets-per-second>—No documentation is available yet.

<idp-policy>

Usage

```
<rpc-reply>
  <idp-policy>
    <policy-load-templates>...</policy-load-templates>
  </idp-policy>
</rpc-reply>
```

Description No documentation is available yet.

Contents <policy-load-templates>—No documentation is available yet.

<idp-predefined-attack-groups>

Usage

```
<rpc-reply>
  <idp-predefined-attack-groups>
    <idp-attack-groups>...</idp-attack-groups>
  </idp-predefined-attack-groups>
</rpc-reply>
```

Description IDP predefined-attack-groups list.

Contents <idp-attack-groups>—No documentation is available yet.

<idp-predefined-attacks>

Usage

```
<rpc-reply>
  <idp-predefined-attacks>
    <idp-attacks-list>...</idp-attacks-list>
  </idp-predefined-attacks>
</rpc-reply>
```

Description IDP predefined-attacks list.

Contents <idp-attacks-list>—No documentation is available yet.

<idp-protocol-list>

Usage

```
<rpc-reply>
  <idp-protocol-list>
    <idp-protocols>...</idp-protocols>
  </idp-protocol-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-protocols>—No documentation is available yet.

<idp-protocols>

Usage

```
<idp-protocol-list>
  <idp-protocols>
    <protocol-name>protocol-name</protocol-name>
    <protocol-type>protocol-type</protocol-type>
    <port-number>port-number</port-number>
    <line-seperator>line-seperator</line-seperator>
    <scope>scope</scope>
  </idp-protocols>
</idp-protocol-list>
```

Description No documentation is available yet.

Contents <line-seperator>—Line Seperator .

<port-number>—IDP Port Number.

<protocol-name>—IDP Protocol name.

<protocol-type>—IDP Protocol type.

<scope>—Scope .

<idp-qmodule>

Usage

```
<idp-qmodule-information>
  <idp-qmodule>
    <name>name</name>
    <minimum-time>minimum-time</minimum-time>
    <maximum-time>maximum-time</maximum-time>
    <average-time>average-time</average-time>
    <number-of-packets>number-of-packets</number-of-packets>
    <number-of-packets-dropped>number-of-packets-dropped
                </number-of-packets-dropped>
    <number-of-error-packets>number-of-error-packets</number-of-error-packets>
  </idp-qmodule>
</idp-qmodule-information>
```

Description IDP q-module.

Contents <average-time>—Average time.

<maximum-time>—Maximum time.

<minimum-time>—Minimum time.

<name>—Name of this component.

<number-of-error-packets>—Number of error packets.

<number-of-packets>—Number of packets.

<number-of-packets-dropped>—Number of packets dropped.

<idp-qmodule-information>

Usage

```
<rpc-reply>
  <idp-qmodule-information>
    <idp-qmodule>...</idp-qmodule>
  </idp-qmodule-information>
</rpc-reply>
```

Description IDP Q-Module information.

Contents <idp-qmodule>—IDP q-module.

<idp-rule-information>

Usage
```
<idp-rulebase>
  <idp-rule-information>
    <idp-rule-name>idp-rule-name</idp-rule-name>
    <idp-rulebase-type>...</idp-rulebase-type>
  </idp-rule-information>
</idp-rulebase>
```

Description No documentation is available yet.

Contents <idp-rule-name>—Rule name.

<idp-rulebase-type>—IDP rulebase type.

<idp-rulebase>

Usage
```
<rpc-reply>
  <idp-rulebase>
    <idp-rule-information>...</idp-rule-information>
  </idp-rulebase>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-rule-information>—No documentation is available yet.

<idp-rulebase-type>

Usage
```
<idp-rule-information>
  <idp-rulebase-type>
    <idp-rulebase-type-name>idp-rulebase-type-name</idp-rulebase-type-name>
    <number-of-rules>number-of-rules</number-of-rules>
  </idp-rulebase-type>
</idp-rule-information>
```

Description IDP rulebase type.

Contents <idp-rulebase-type-name>—Rulebase type name.

<number-of-rules>—No documentation is available yet.

<idp-security-package-information>

Usage

```
<rpc-reply>
  <idp-security-package-information>
    <security-package-version>security-package-version</security-package-version>
    <detector-version>detector-version</detector-version>
    <policy-template-version>policy-template-version</policy-template-version>
  </idp-security-package-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <detector-version>—Detector version.

<policy-template-version>—Policy template version.

<security-package-version>—Security package version.

<idp-session>

Usage

```
<idp-session-information>
  <idp-session>
    <session-identifier>session-identifier</session-identifier>
    <source-address>source-address</source-address>
    <source-port>source-port</source-port>
    <destination-address>destination-address</destination-address>
    <destination-port>destination-port</destination-port>
    <from-zone>from-zone</from-zone>
    <to-zone>to-zone</to-zone>
    <protocol>protocol</protocol>
    <idp-service>idp-service</idp-service>
    <fw-service>fw-service</fw-service>
    <timeout>timeout</timeout>
    <maximum-timeout>maximum-timeout</maximum-timeout>
  </idp-session>
</idp-session-information>
```

Description IDP session.

Contents <destination-address>—Destination address.

<destination-port>—Destination port.

<from-zone>—From zone.

<fw-service>—Firewall service type.

<idp-service>—IDP service type.

<maximum-timeout>—Flow timeout.

<protocol>—IP protocol.

<session-identifier>—Session ID.

<source-address>—Source address.

<source-port>—Source port.

<timeout>—Flow timeout.

<to-zone>—To zone.

<idp-session-count>

Usage
```
<idp-status-information>
  <idp-session-count>
    <icmp-session-count>icmp-session-count</icmp-session-count>
    <tcp-session-count>tcp-session-count</tcp-session-count>
    <udp-session-count>udp-session-count</udp-session-count>
    <other-session-count>other-session-count</other-session-count>
  </idp-session-count>
</idp-status-information>
```

Description No documentation is available yet.

Contents <icmp-session-count>—No documentation is available yet.

<other-session-count>—No documentation is available yet.

<tcp-session-count>—No documentation is available yet.

<udp-session-count>—No documentation is available yet.

<idp-session-information>

Usage
```
<rpc-reply>
  <idp-session-information>
    <idp-session>...</idp-session>
  </idp-session-information>
</rpc-reply>
```

Description IDP Session information.

Contents <idp-session>—IDP session.

<idp-session-summary-information>

Usage
```
<rpc-reply>
  <idp-session-summary-information>
    <idp-session-summary-per-pic-information>...
                    </idp-session-summary-per-pic-information>
    <total-sessions>total-sessions</total-sessions>
  </idp-session-summary-information>
</rpc-reply>
```

Description Summary information for IDP sessions.

Contents <idp-session-summary-per-pic-information>—IDP session summary per PIC information.

<total-sessions>—Total sessions.

<idp-session-summary-per-pic-information>

Usage
```
<idp-session-summary-information>
  <idp-session-summary-per-pic-information>
    <pic-name>pic-name</pic-name>
    <maximum-sessions>maximum-sessions</maximum-sessions>
    <active-sessions>active-sessions</active-sessions>
  </idp-session-summary-per-pic-information>
</idp-session-summary-information>
```

Description IDP session summary per PIC information.

Contents <active-sessions>—Number of active sessions.

<maximum-sessions>—Maximum sessions.

<pic-name>—Pic name.

<idp-ssl-key-information>

Usage
```
<rpc-reply>
  <idp-ssl-key-information>
    <idp-ssl-key-count>idp-ssl-key-count</idp-ssl-key-count>
    <idp-ssl-per-key-information>...</idp-ssl-per-key-information>
  </idp-ssl-key-information>
</rpc-reply>
```

Description Show SSL keys and server addresses.

Contents <idp-ssl-key-count>—Number of SSL keys.

<idp-ssl-per-key-information>—No documentation is available yet.

<idp-ssl-per-key-information>

Usage
```
<idp-ssl-key-information>
  <idp-ssl-per-key-information>
    <key-name>key-name</key-name>
    <destination-address>destination-address</destination-address>
  </idp-ssl-per-key-information>
</idp-ssl-key-information>
```

Description No documentation is available yet.

Contents <destination-address>—Destination address.

<key-name>—SSL server private key name.

<idp-ssl-session-cache-entry>

Usage
```
<get-idp-ssl-session-cache-information>
  <idp-ssl-session-cache-entry>
    <ssl-session-identifier>ssl-session-identifier</ssl-session-identifier>
  </idp-ssl-session-cache-entry>
</get-idp-ssl-session-cache-information>
```

Description Information about SSL session cache entry.

Contents <ssl-session-identifier>—SSL Session Identifier.

<idp-ssl-session-information>

Usage
```
<idp-status-information>
  <idp-ssl-session-information>
    <ssl-session-count>ssl-session-count</ssl-session-count>
  </idp-ssl-session-information>
</idp-status-information>
```

Description No documentation is available yet.

Contents <ssl-session-count>—No documentation is available yet.

<idp-status-information>

Usage

```
<rpc-reply>
  <idp-status-information>
    <idp-uptime>...</idp-uptime>
    <idp-packets-per-second-information>...</idp-packets-per-second-information>
    <idp-kbits-per-second-information>...</idp-kbits-per-second-information>
    <idp-latency>...</idp-latency>
    <idp-packet-count>...</idp-packet-count>
    <idp-icmp-flow-count>...</idp-icmp-flow-count>
    <idp-tcp-flow-count>...</idp-tcp-flow-count>
    <idp-udp-flow-count>...</idp-udp-flow-count>
    <idp-other-flow-count>...</idp-other-flow-count>
    <idp-session-count>...</idp-session-count>
    <idp-ssl-session-information>...</idp-ssl-session-information>
  </idp-status-information>
</rpc-reply>
```

Description IDP status information.

Contents <idp-icmp-flow-count>—No documentation is available yet.

<idp-kbits-per-second-information>—No documentation is available yet.

<idp-latency>—No documentation is available yet.

<idp-other-flow-count>—No documentation is available yet.

<idp-packet-count>—No documentation is available yet.

<idp-packets-per-second-information>—No documentation is available yet.

<idp-session-count>—No documentation is available yet.

<idp-ssl-session-information>—No documentation is available yet.

<idp-tcp-flow-count>—No documentation is available yet.

<idp-udp-flow-count>—No documentation is available yet.

<idp-uptime>—No documentation is available yet.

<idp-tcp-flow-count>

Usage

```
<idp-status-information>
  <idp-tcp-flow-count>
    <current-tcp-flow-count>current-tcp-flow-count</current-tcp-flow-count>
    <maximum-tcp-flow-count>maximum-tcp-flow-count</maximum-tcp-flow-count>
    <maximum-tcp-flow-count-time>maximum-tcp-flow-count-time
                </maximum-tcp-flow-count-time>
    <date-time>date-time</date-time>
  </idp-tcp-flow-count>
</idp-status-information>
```

Description No documentation is available yet.

Contents <current-tcp-flow-count>—No documentation is available yet.

<date-time>—IDP peak packets(or Kbits) per second.

<maximum-tcp-flow-count>—No documentation is available yet.

<maximum-tcp-flow-count-time>—No documentation is available yet.

<idp-udp-flow-count>

Usage

```
<idp-status-information>
  <idp-udp-flow-count>
    <current-udp-flow-count>current-udp-flow-count</current-udp-flow-count>
    <maximum-udp-flow-count>maximum-udp-flow-count</maximum-udp-flow-count>
    <maximum-udp-flow-count-time>maximum-udp-flow-count-time
                </maximum-udp-flow-count-time>
    <date-time>date-time</date-time>
  </idp-udp-flow-count>
</idp-status-information>
```

Description No documentation is available yet.

Contents <current-udp-flow-count>—No documentation is available yet.

<date-time>—IDP peak packets(or Kbits) per second.

<maximum-udp-flow-count>—No documentation is available yet.

<maximum-udp-flow-count-time>—No documentation is available yet.

<idp-uptime>

Usage
```
<idp-status-information>
  <idp-uptime>
    <idp-status>idp-status</idp-status>
    <date-time>date-time</date-time>
    <time-length>time-length</time-length>
  </idp-uptime>
</idp-status-information>
```

Description No documentation is available yet.

Contents <date-time>—IDP peak packets(or Kbits) per second.

<idp-status>—No documentation is available yet.

<time-length>—No documentation is available yet.

<idp-version-information>

Usage
```
<rpc-reply>
  <idp-version-information>
    <idp-policy-name>idp-policy-name</idp-policy-name>
    <idp-detector-version>idp-detector-version</idp-detector-version>
    <idp-sigdb-version>idp-sigdb-version</idp-sigdb-version>
  </idp-version-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <idp-detector-version>—IDP running detector version.

<idp-policy-name>—IDP active policy name.

<idp-sigdb-version>—IDP compiled signature database version.

<policy-load-templates>

Usage
```
<idp-policy>
  <policy-load-templates>
    <desc>desc</desc>
  </policy-load-templates>
</idp-policy>
```

Description No documentation is available yet.

Contents <desc>—No documentation is available yet.

<request-idp-ssl-key-delete>

Usage
```
<rpc-reply>
  <request-idp-ssl-key-delete>
    <key-number>key-number</key-number>
    <server-number>server-number</server-number>
  </request-idp-ssl-key-delete>
</rpc-reply>
```

Description Delete SSL server and private key binding.

Contents <key-number>—Number of SSL keys.

<server-number>—Number of SSL servers.

<secpack-download-policy-template-result>

Usage
```
<rpc-reply>
  <secpack-download-policy-template-result>
    <secpack-download-policy-template-detail>secpack-download-policy-template-detail
          </secpack-download-policy-template-detail>
  </secpack-download-policy-template-result>
</rpc-reply>
```

Description Status of policy templates operation.

Contents <secpack-download-policy-template-detail>—Policy template download detail.

<secpack-download-status>

Usage
```
<rpc-reply>
  <secpack-download-status>
    <secpack-download-status-detail>secpack-download-status-detail
          </secpack-download-status-detail>
  </secpack-download-status>
</rpc-reply>
```

Description Status of security package download.

Contents <secpack-download-status-detail>—Security download detail.

<secpack-update-policy-template-result>

Usage
```
<rpc-reply>
  <secpack-update-policy-template-result>
    <secpack-update-policy-template-detail>secpack-update-policy-template-detail
          </secpack-update-policy-template-detail>
  </secpack-update-policy-template-result>
</rpc-reply>
```

Description Status of policy templates operation.

Contents <secpack-update-policy-template-detail>—Policy template update detail.

<secpack-update-status>

Usage

```
<rpc-reply>
  <secpack-update-status>
    <secpack-status-detail>secpack-status-detail</secpack-status-detail>
  </secpack-update-status>
</rpc-reply>
```

Description Status of security package install.

Contents <secpack-status-detail>—Security install detail.

Summary of Interface Metadata Response Tags

This section lists JUNOS XML tags that contain operational information about the interface metadata. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-interface-metadata. To review the DTD for the tags, see "DTD for Interface Metadata Response Tags" on page 2213.

<channels>

Usage
```
<interface>
  <channels>
    <subunit>subunit</subunit>
  </channels>
</interface>
```

Description Channelized interface information.

Contents <subunit>—Number of subunits for channelized interface.

<interface>

Usage
```
<interface-metadata-information>
  <interface>
    <name>name</name>
    <long>long</long>
    <pics-per-slot>pics-per-slot</pics-per-slot>
    <ports-per-slot>ports-per-slot</ports-per-slot>
    <max-mtu>max-mtu</max-mtu>
    <flag>flag</flag>
    <channels>...</channels>
    <max-channelization>max-channelization</max-channelization>
    <product>product</product>
  </interface>
</interface-metadata-information>
```

Description Information about an interface.

Contents <channels>—Channelized interface information.

<flag>—Flags for this interface type.

<long>—Product number.

<max-channelization>—Maximum level of channelization.

<max-mtu>—Maximum mtu.

<name>—Product model number.

<pics-per-slot>—Number of pics allowed per nic.

<ports-per-slot>—Number of ports per pic.

<product>—Product(s) this interface is supported on.

<interface-metadata-information>

Usage

```
<rpc-reply>
  <interface-metadata-information>
    <interface>...</interface>
  </interface-metadata-information>
</rpc-reply>
```

Description Informtation on one or more interfaces.

Contents <interface>—Information about an interface.

Summary of Interface Response Tags

This section lists JUNOS XML tags that contain operational information about routing platform interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-interface. To review the DTD for the tags, see "DTD for Interface Response Tags" on page 2143.

<active-alarms>

Usage

```
<physical-interface | link-entry>
  <active-alarms>
    <type>type</type>
    <interface-alarms>...</interface-alarms>
  </active-alarms>
</physical-interface | link-entry>
```

Description Media-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

Contents <interface-alarms>—Container tag for interface alarms.

<type>—Media type for associated interface alarms.

<active-alarms-otn>

Usage

```
<physical-interface>
  <active-alarms-otn>
    <type-otn>type-otn</type-otn>
    <interface-alarms>...</interface-alarms>
  </active-alarms-otn>
</physical-interface>
```

Description OTN-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

Contents <interface-alarms>—Container tag for interface alarms.

<type-otn>—OTN type for associated interface alarms.

<active-defects>

Usage
```
<physical-interface | link-entry>
  <active-defects>
    <type>type</type>
    <interface-alarms>...</interface-alarms>
  </active-defects>
</physical-interface | link-entry>
```

Description Media-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

Contents <interface-alarms>—Container tag for interface alarms.

<type>—Media type for associated interface alarms.

<active-defects-otn>

Usage
```
<physical-interface>
  <active-defects-otn>
    <type-otn>type-otn</type-otn>
    <interface-alarms>...</interface-alarms>
  </active-defects-otn>
</physical-interface>
```

Description OTN-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

Contents <interface-alarms>—Container tag for interface alarms.

<type-otn>—OTN type for associated interface alarms.

<address-family>

Usage

```
<logical-interface>
  <address-family>

<compression-device-name>compression-device-name</compression-device-name>
    <address-family-name>address-family-name</address-family-name>
    <multilink-bundle-name>multilink-bundle-name</multilink-bundle-name>
    <as-bundle-name>as-bundle-name</as-bundle-name>
    <ae-bundle-name>ae-bundle-name</ae-bundle-name>
    <es-sa-name>es-sa-name</es-sa-name>
    <es-sa-fail-count>es-sa-fail-count</es-sa-fail-count>
    <es-sa-xmt-seq-num>es-sa-xmt-seq-num</es-sa-xmt-seq-num>
    <es-sa-recv-seq-num>es-sa-recv-seq-num</es-sa-recv-seq-num>
    <mtu>mtu</mtu>
    <address-family-flags>...</address-family-flags>
    <address-family-unnumbered>...</address-family-unnumbered>
    <arp-respond-any-local-address>arp-respond-any-local-address
                </arp-respond-any-local-address>
    <generation>generation</generation>
    <route-table>route-table</route-table>
    <filter-information>...</filter-information>
    <policer-information>...</policer-information>
    <interface-address>...</interface-address>
    <mac-validate-statistics>...</mac-validate-statistics>
    <route-rpf-statistics>...</route-rpf-statistics>
    <destination-class-statistics>...</destination-class-statistics>
    <source-class-statistics>...</source-class-statistics>
  </address-family>
</logical-interface>
```

Description No documentation is available yet.

Contents

<address-family-flags>—No documentation is available yet.

<address-family-name>—No documentation is available yet.

<address-family-unnumbered>—Information about an unnumbered address family.

<ae-bundle-name>—Name of the aggregated Ethernet bundle.

<arp-respond-any-local-address>—Respond to ARP requests for any local address.

<as-bundle-name>—Name of the aggregated SONET bundle for this address family.

<compression-device-name>—Name of the link service device.

<destination-class-statistics>—Destination class usage (DCU) statistics.

<es-sa-fail-count>—Number of failures for IPSec security association for this family.

<es-sa-name>—Name of the IPSec security association for this address family.

<es-sa-recv-seq-num>—Receive sequence number of IPSec security association family.

<es-sa-xmt-seq-num>—Transmit sequence number of IPSec security association family.

<filter-information>—No documentation is available yet.

<generation>—Generation number used to distinguish between successive instances of this interface.

<interface-address>—No documentation is available yet.

<mac-validate-statistics>—SRC MAC validate statistics.

<mtu>—MTU size on this interface.

<multilink-bundle-name>—Name of the multilink bundle for this address family.

<policer-information>—Interface policer information.

<route-rpf-statistics>—Unicast reverse-path forwarding (RPF) statistics.

<route-table>—No documentation is available yet.

<source-class-statistics>—Source class usage (SCU) statistics.

<address-family-flags>

Usage

```
<address-family>
  <address-family-flags>
    <ifff-none/>
    <ifff-primary/>
    <ifff-redirects/>
    <ifff-no-redirects/>
    <ifff-no-arp-learn/>
    <ifff-hard-down/>
    <ifff-down/>
    <ifff-up/>
    <ifff-func1/>
    <ifff-func2/>
    <ifff-is-primary/>
    <ifff-recv-options/>
    <ifff-recv-ttl-exceeded/>
    <ifff-dst-class-usage/>
    <ifff-src-class-input/>
    <ifff-src-class-output/>
    <ifff-mtu-user-conf/>
    <ifff-mac-validate-strict/>
    <ifff-mac-validate-loose/>
    <ifff-rpf-check/>
    <ifff-rpf-loose-mode/>
    <ifff-sample-input/>
    <ifff-sample-output/>
    <ifff-no-asynch-notification/>
    <ifff-negotiate-address/>
    <ifff-port-mode-trunk/>
    <ifff-mtu-protocol-adj/>
    <ifff-unnumbered/>
    <ifff-tcc-mpls/>
    <ifff-tcc-inet/>
    <ifff-tcc-inet6/>
    <ifff-tcc-iso/>
    <generic-value>generic-value</generic-value>
  </address-family-flags>
</address-family>
```

Description No documentation is available yet.

Contents <generic-value>—Hexadecimal value of unknown flag bits.

<ifff-down>—Protocol is inactive.

<ifff-dst-class-usage>—Interface family is configured for DCU.

<ifff-func1>—No documentation is available yet.

<ifff-func2>—No documentation is available yet.

<ifff-hard-down>—Protocol failed to negotiate correctly.

<ifff-is-primary>—Interface is the primary one for the protocol.

<ifff-mac-validate-loose>—Interface family is configured for loose mac-validate.

<ifff-mac-validate-strict>—Interface family is configured for strict mac-validate.

<ifff-mtu-protocol-adj>—MTU is adjusted by protocol.

<ifff-mtu-user-conf>—Protocol MTU has been changed by configuration.

<ifff-negotiate-address>—Get local address using IPCP address negotiation.

<ifff-no-arp-learn>—ARP learning is disabled.

<ifff-no-asynch-notification>—Do not send asynchronous notification upon link failure.

<ifff-no-redirects>—Protocol redirects are disabled.

<ifff-none>—No documentation is available yet.

<ifff-port-mode-trunk>—Port mode is trunk.

<ifff-primary>—Interface can be considered for selection as the primary family address.

<ifff-recv-options>—Receive nonlocal options packets.

<ifff-recv-ttl-exceeded>—Receive nonlocal TTL-exceeded packets.

<ifff-redirects>—No documentation is available yet.

<ifff-rpf-check>—Interface family is configured for unicast RPF.

<ifff-rpf-loose-mode>—Interface family is configured for uRPF loose mode.

<ifff-sample-input>—Interface family is configured to sample input packets.

<ifff-sample-output>—Interface family is configured to sample output packets.

<ifff-src-class-input>—Interface family is configured for SCU input.

<ifff-src-class-output>—Interface family is configured for SCU output.

<ifff-tcc-inet>—IP version 4 over translational cross-connect.

<ifff-tcc-inet6>—IP version 6 over translational cross-connect.

<ifff-tcc-iso>—International Organization for Standardization over translational cross-connect.

<ifff-tcc-mpls>—Multiprotocol Label Switching over translational cross-connect.

<ifff-unnumbered>—Unnumbered.

<ifff-up>—Protocol is configured and operational.

<address-family-unnumbered>

Usage

```
<address-family>
  <address-family-unnumbered>

<unnumbered-family-donor-interface-name>unnumbered-family-donor-interface-name
                </unnumbered-family-donor-interface-name>

<unnumbered-family-donor-interface-index>unnumbered-family-donor-interface-index
                </unnumbered-family-donor-interface-index>

<unnumbered-family-preferred-source-address>unnumbered-family-preferred-source-add
ress
                </unnumbered-family-preferred-source-address>
  </address-family-unnumbered>
</address-family>
```

Description Information about an unnumbered address family.

Contents <unnumbered-family-donor-interface-index>—Donor interface index.

<unnumbered-family-donor-interface-name>—Donor interface name.

<unnumbered-family-preferred-source-address>—Unnumbered interface preferred source address.

<atm-cos-information>

Usage

```
<virtual-circuit-information>
  <atm-cos-information>
    <vc-cos-mode>vc-cos-mode</vc-cos-mode>
    <atm-cos-queue>...</atm-cos-queue>
  </atm-cos-information>
</virtual-circuit-information>
```

Description No documentation is available yet.

Contents <atm-cos-queue>—No documentation is available yet.

<vc-cos-mode>—Virtual circuit CoS scheduling mode.

<atm-cos-plp-statistics>

Usage

```
<atm-cos-queue>
  <atm-cos-plp-statistics>
    <atm-plp0-output-bytes>atm-plp0-output-bytes</atm-plp0-output-bytes>
    <atm-plp1-output-bytes>atm-plp1-output-bytes</atm-plp1-output-bytes>
    <atm-plp0-output-packets>atm-plp0-output-packets</atm-plp0-output-packets>
    <atm-plp1-output-packets>atm-plp1-output-packets</atm-plp1-output-packets>
    <atm-plp0-byte-drops>atm-plp0-byte-drops</atm-plp0-byte-drops>
    <atm-plp1-byte-drops>atm-plp1-byte-drops</atm-plp1-byte-drops>
    <atm-plp0-packet-drops>atm-plp0-packet-drops</atm-plp0-packet-drops>
    <atm-plp1-packet-drops>atm-plp1-packet-drops</atm-plp1-packet-drops>
  </atm-cos-plp-statistics>
</atm-cos-queue>
```

Description No documentation is available yet.

Contents <atm-plp0-byte-drops>—No documentation is available yet.

<atm-plp0-output-bytes>—No documentation is available yet.

<atm-plp0-output-packets>—No documentation is available yet.

<atm-plp0-packet-drops>—No documentation is available yet.

<atm-plp1-byte-drops>—No documentation is available yet.

<atm-plp1-output-bytes>—No documentation is available yet.

<atm-plp1-output-packets>—No documentation is available yet.

<atm-plp1-packet-drops>—No documentation is available yet.

<atm-cos-queue>

Usage

```
<atm-cos-information>
  <atm-cos-queue>
    <atm-cos-queue-parameters>...</atm-cos-queue-parameters>
    <atm-cos-queue-statistics>...</atm-cos-queue-statistics>
    <atm-cos-plp-statistics>...</atm-cos-plp-statistics>
  </atm-cos-queue>
</atm-cos-information>
```

Description No documentation is available yet.

Contents <atm-cos-plp-statistics>—No documentation is available yet.

<atm-cos-queue-parameters>—No documentation is available yet.

<atm-cos-queue-statistics>—No documentation is available yet.

<atm-cos-queue-parameters>

Usage

```
<atm-cos-queue>
  <atm-cos-queue-parameters>
    <cos-forwarding-class-name>cos-forwarding-class-name
                    </cos-forwarding-class-name>
    <cos-queue-number>cos-queue-number</cos-queue-number>
    <scheduling-priority>scheduling-priority</scheduling-priority>
    <transmit-weight-cells>transmit-weight-cells</transmit-weight-cells>
    <transmit-weight-percent>transmit-weight-percent</transmit-weight-percent>
    <epd-threshold>epd-threshold</epd-threshold>
    <epd-threshold-plp0>epd-threshold-plp0</epd-threshold-plp0>
    <epd-threshold-plp1>epd-threshold-plp1</epd-threshold-plp1>
    <linear-red-drop-profile>...</linear-red-drop-profile>
  </atm-cos-queue-parameters>
</atm-cos-queue>
```

Description No documentation is available yet.

Contents <cos-forwarding-class-name>—Forwarding class name associated with queue.

<cos-queue-number>—Queue number.

<epd-threshold>—Early packet drop threshold.

<epd-threshold-plp0>—Early packet drop threshold for PLP 0.

<epd-threshold-plp1>—Early packet drop threshold for PLP 1.

<linear-red-drop-profile>—No documentation is available yet.

<scheduling-priority>—Scheduling priority.

<transmit-weight-cells>—Weight to apply to scheduling as number of cells.

<transmit-weight-percent>—Weight to apply to scheduling as fill percentage.

<atm-cos-queue-statistics>

Usage

```
<atm-cos-queue>
  <atm-cos-queue-statistics>
    <atm-output-bytes>atm-output-bytes</atm-output-bytes>
    <atm-output-packets>atm-output-packets</atm-output-packets>
    <atm-packet-drops>atm-packet-drops</atm-packet-drops>
  </atm-cos-queue-statistics>
</atm-cos-queue>
```

Description No documentation is available yet.

Contents <atm-output-bytes>—No documentation is available yet.

<atm-output-packets>—No documentation is available yet.

<atm-packet-drops>—No documentation is available yet.

<atm-defects>

Usage

```
<atm-information>
  <atm-defects>
    <media-alarm>...</media-alarm>
  </atm-defects>
</atm-information>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<atm-information>

Usage

```
<physical-interface>
  <atm-information>
    <plcp-defects>...</plcp-defects>
    <atm-defects>...</atm-defects>
    <plcp-statistics>...</plcp-statistics>
    <atm-hcs-state>atm-hcs-state</atm-hcs-state>
    <atm-loss-of-cell>atm-loss-of-cell</atm-loss-of-cell>
    <atm-statistics>...</atm-statistics>
  </atm-information>
</physical-interface>
```

Description Operational information and statistics for ATM interfaces.

Contents <atm-defects>—No documentation is available yet.

<atm-hcs-state>—No documentation is available yet.

<atm-loss-of-cell>—No documentation is available yet.

<atm-statistics>—No documentation is available yet.

<plcp-defects>—No documentation is available yet.

<plcp-statistics>—No documentation is available yet.

<atm-statistics>

Usage

```
<atm-information | virtual-circuit-information>
  <atm-statistics>
    <uncorrectable-hcs-errors>uncorrectable-hcs-errors</uncorrectable-hcs-errors>
    <correctable-hcs-errors>correctable-hcs-errors</correctable-hcs-errors>
    <tx-cell-fifo-overruns>tx-cell-fifo-overruns</tx-cell-fifo-overruns>
    <rx-cell-fifo-overruns>rx-cell-fifo-overruns</rx-cell-fifo-overruns>
    <rx-cell-fifo-underruns>rx-cell-fifo-underruns</rx-cell-fifo-underruns>
    <rx-cell-count>rx-cell-count</rx-cell-count>
    <tx-cell-count>tx-cell-count</tx-cell-count>
    <tx-idle-cell-count>tx-idle-cell-count</tx-idle-cell-count>
    <vc-queue-drops>vc-queue-drops</vc-queue-drops>
    <no-buffers>no-buffers</no-buffers>
    <length-errors>length-errors</length-errors>
    <timeouts>timeouts</timeouts>
    <bundle-timeouts>bundle-timeouts</bundle-timeouts>
    <rx-invalid-vcs>rx-invalid-vcs</rx-invalid-vcs>
    <bad-crcs>bad-crcs</bad-crcs>
    <oam-cell-no-buffers>oam-cell-no-buffers</oam-cell-no-buffers>
  </atm-statistics>
</atm-information | virtual-circuit-information>
```

Description No documentation is available yet.

Contents <bad-crcs>—No documentation is available yet.

<bundle-timeouts>—No documentation is available yet.

<correctable-hcs-errors>—No documentation is available yet.

<length-errors>—No documentation is available yet.

<no-buffers>—No documentation is available yet.

<oam-cell-no-buffers>—No documentation is available yet.

<rx-cell-count>—No documentation is available yet.

<rx-cell-fifo-overruns>—No documentation is available yet.

<rx-cell-fifo-underruns>—No documentation is available yet.

<rx-invalid-vcs>—No documentation is available yet.

<timeouts>—No documentation is available yet.

<tx-cell-count>—No documentation is available yet.

<tx-cell-fifo-overruns>—No documentation is available yet.

<tx-idle-cell-count>—No documentation is available yet.

<uncorrectable-hcs-errors>—No documentation is available yet.

<vc-queue-drops>—No documentation is available yet.

<ber-threshold>

Usage
```
<physical-interface>
  <ber-threshold>
    <ber-sd>ber-sd</ber-sd>
    <ber-sf>ber-sf</ber-sf>
  </ber-threshold>
</physical-interface>
```

Description Bit error rate (BER) threshold for SONET interface.

Contents <ber-sd>—BER-SD threshold.

<ber-sf>—BER-SF threshold.

<bridge-iff-properties>

Usage
```
<logical-interface>
  <bridge-iff-properties>
    <svlan-ethertype>svlan-ethertype</svlan-ethertype>
    <eth-switching-flags>...</eth-switching-flags>
  </bridge-iff-properties>
</logical-interface>
```

Description Information about Ethernet-switching address family.

Contents <eth-switching-flags>—Information about Ethernet-switching family flags.

<svlan-ethertype>—SVLAN Ethertype value.

<bundle>

Usage
```
<multilink-traffic-statistics | mlfr-uni-nni-traffic-statistics>
  <bundle>
    <multilink-frames>...</multilink-frames>
    <network-frames>...</network-frames>
  </bundle>
</multilink-traffic-statistics | mlfr-uni-nni-traffic-statistics>
```

Description No documentation is available yet.

Contents <multilink-frames>—Link-pic bound frame statistics for multilink bundles and classes.

<network-frames>—Internet/RE bound frame statistics for multilink bundles and classes.

<bundle-detail>

Usage

```
<multilink-detail-statistics>
  <bundle-detail>
    <fragments>...</fragments>
    <non-fragments>...</non-fragments>
    <lfi>...</lfi>
  </bundle-detail>
</multilink-detail-statistics>
```

Description No documentation is available yet.

Contents <fragments>—Fragment statistics for multilink bundles and classes.

<lfi>—LFI frame statistics for multilink bundles and classes.

<non-fragments>—Non-fragment statistics for multilink bundles and classes.

<cds1-information>

Usage

```
<physical-interface>
  <cds1-information>
    <interface-tx-queue>...</interface-tx-queue>
  </cds1-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <interface-tx-queue>—No documentation is available yet.

<cesopsn-information>

Usage

```
<physical-interface>
  <cesopsn-information>
    <ce-packetization-latency>ce-packetization-latency</ce-packetization-latency>
    <ce-idle-pattern>ce-idle-pattern</ce-idle-pattern>
    <ce-jitter-buffer-packets>ce-jitter-buffer-packets</ce-jitter-buffer-packets>
    <ce-jitter-buffer-latency>ce-jitter-buffer-latency</ce-jitter-buffer-latency>
    <ce-jitter-buffer-auto-adjust>ce-jitter-buffer-auto-adjust
                </ce-jitter-buffer-auto-adjust>

<ce-excessive-packet-loss-rate-sample-period>ce-excessive-packet-loss-rate-sample-peri
od
                </ce-excessive-packet-loss-rate-sample-period>
    <ce-excessive-packet-loss-rate-threshold>ce-excessive-packet-loss-rate-threshold
                </ce-excessive-packet-loss-rate-threshold>
  </cesopsn-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <ce-excessive-packet-loss-rate-sample-period>—No documentation is available yet.

<ce-excessive-packet-loss-rate-threshold>—No documentation is available yet.

<ce-idle-pattern>—No documentation is available yet.

<ce-jitter-buffer-auto-adjust>—No documentation is available yet.

<ce-jitter-buffer-latency>—No documentation is available yet.

<ce-jitter-buffer-packets>—No documentation is available yet.

<ce-packetization-latency>—No documentation is available yet.

<chassis-queue-counters>

Usage

```
<physical-interface>
  <chassis-queue-counters>
    <interface-chassis-cos-summary>...</interface-chassis-cos-summary>
    <queue>...</queue>
  </chassis-queue-counters>
</physical-interface>
```

Description Chassis queue counter statistics.

Contents <interface-chassis-cos-summary>—Packet Forwarding Engine chassis forwarding class and queue information for an interface.

<queue>—Counters for a single queue.

<*class*>

Usage
```
<multilink-traffic-statistics>
  <class>
    <class-info>...</class-info>
    <multilink-frames>...</multilink-frames>
    <network-frames>...</network-frames>
  </class>
</multilink-traffic-statistics>
```

Description Multilink class traffic statistics.

Contents <class-info>—Multilink class information.

<multilink-frames>—Link-pic bound frame statistics for multilink bundles and classes.

<network-frames>—Internet/RE bound frame statistics for multilink bundles and classes.

<*class-detail*>

Usage
```
<multilink-detail-statistics>
  <class-detail>
    <class-info>...</class-info>
    <fragments>...</fragments>
    <non-fragments>...</non-fragments>
  </class-detail>
</multilink-detail-statistics>
```

Description No documentation is available yet.

Contents <class-info>—Multilink class information.

<fragments>—Fragment statistics for multilink bundles and classes.

<non-fragments>—Non-fragment statistics for multilink bundles and classes.

<*class-info*>

Usage
```
<class | class-detail>
  <class-info>
    <multilink-class-id>multilink-class-id</multilink-class-id>
  </class-info>
</class | class-detail>
```

Description Multilink class information.

Contents <multilink-class-id>—Multilink class ID.

<clocking-mode>

Usage
```
<serial-information>
  <clocking-mode>
    <clock-mode>clock-mode</clock-mode>
  </clocking-mode>
</serial-information>
```

Description No documentation is available yet.

Contents <clock-mode>—No documentation is available yet.

<clocking-rate>

Usage
```
<serial-information>
  <clocking-rate>
    <clock-rate>clock-rate</clock-rate>
  </clocking-rate>
</serial-information>
```

Description No documentation is available yet.

Contents <clock-rate>—Interface clock rate.

<controller>

Usage
```
<interface-information>
  <controller>
    <name>name</name>
    <admin-status>admin-status</admin-status>
    <oper-status>oper-status</oper-status>
  </controller>
</interface-information>
```

Description No documentation is available yet.

Contents <admin-status>—Desired state of the interface.

<name>—Name of this item.

<oper-status>—Current operational state of the interface.

<cos-information>

Usage
```
<physical-interface>
  <cos-information>
    <cos-stream-information>...</cos-stream-information>
  </cos-information>
</physical-interface>
```

Description Information about class-of-service configuration.

Contents <cos-stream-information>—Information about the traffic stream.

<cos-queue-configuration>

Usage

```
<cos-stream-information>
  <cos-queue-configuration>
    <cos-queue-number>cos-queue-number</cos-queue-number>
    <cos-queue-forwarding-class>cos-queue-forwarding-class
                </cos-queue-forwarding-class>
    <cos-queue-bandwidth>cos-queue-bandwidth</cos-queue-bandwidth>
    <cos-queue-bandwidth-remainder>cos-queue-bandwidth-remainder
                </cos-queue-bandwidth-remainder>
    <cos-queue-bandwidth-bps>cos-queue-bandwidth-bps</cos-queue-bandwidth-bps>
    <cos-queue-bandwidth-bps-remainder>cos-queue-bandwidth-bps-remainder
                </cos-queue-bandwidth-bps-remainder>
    <cos-queue-buffer>cos-queue-buffer</cos-queue-buffer>
    <cos-queue-buffer-remainder>cos-queue-buffer-remainder
                </cos-queue-buffer-remainder>
    <cos-queue-buffer-bytes>cos-queue-buffer-bytes</cos-queue-buffer-bytes>
    <cos-queue-priority>cos-queue-priority</cos-queue-priority>
    <cos-queue-limit>cos-queue-limit</cos-queue-limit>
  </cos-queue-configuration>
</cos-stream-information>
```

Description No documentation is available yet.

Contents

<cos-queue-bandwidth>—No documentation is available yet.

<cos-queue-bandwidth-bps>—No documentation is available yet.

<cos-queue-bandwidth-bps-remainder>—No documentation is available yet.

<cos-queue-bandwidth-remainder>—No documentation is available yet.

<cos-queue-buffer>—No documentation is available yet.

<cos-queue-buffer-bytes>—No documentation is available yet.

<cos-queue-buffer-remainder>—No documentation is available yet.

<cos-queue-forwarding-class>—No documentation is available yet.

<cos-queue-limit>—No documentation is available yet.

<cos-queue-number>—Queue number.

<cos-queue-priority>—No documentation is available yet.

<cos-stream-information>

Usage
```
<cos-information>
  <cos-stream-information>
    <cos-direction>cos-direction</cos-direction>
    <cos-queue-configuration>...</cos-queue-configuration>
  </cos-stream-information>
</cos-information>
```

Description Information about the traffic stream.

Contents <cos-direction>—Direction of the traffic stream.

<cos-queue-configuration>—No documentation is available yet.

<crtp>

Usage
```
<multilink-traffic-statistics>
  <crtp>
    <crtp-sessions>...</crtp-sessions>
    <crtp-statistics>...</crtp-statistics>
  </crtp>
</multilink-traffic-statistics>
```

Description No documentation is available yet.

Contents <crtp-sessions>—No documentation is available yet.

<crtp-statistics>—No documentation is available yet.

<crtp-sessions>

Usage
```
<crtp>
  <crtp-sessions>
    <input-frames>input-frames</input-frames>
    <output-frames>output-frames</output-frames>
  </crtp-sessions>
</crtp>
```

Description No documentation is available yet.

Contents <input-frames>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<crtp-statistics>

Usage

```
<crtp>
  <crtp-statistics>
    <name>name</name>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </crtp-statistics>
</crtp>
```

Description No documentation is available yet.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<name>—Name of this item.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<ct3-information>

Usage

```
<physical-interface>
  <ct3-information>
    <interface-tx-queue>...</interface-tx-queue>
  </ct3-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <interface-tx-queue>—No documentation is available yet.

<data-signal>

Usage
```
<serial-information>
  <data-signal>
    <rx-clock>rx-clock</rx-clock>
  </data-signal>
</serial-information>
```

Description No documentation is available yet.

Contents <rx-clock>—No documentation is available yet.

<demux-information>

Usage
```
<logical-interface>
  <demux-information>
    <demux-interface>...</demux-interface>
  </demux-information>
</logical-interface>
```

Description Demux information.

Contents <demux-interface>—No documentation is available yet.

<demux-interface>

Usage

```
<logical-interface | demux-information>
  <demux-interface>
    <demux-underlying-interface-name>demux-underlying-interface-name
                </demux-underlying-interface-name>
    <demux-underlying-interface-index>demux-underlying-interface-index
                </demux-underlying-interface-index>
    <demux-inet-prefix-type>demux-inet-prefix-type</demux-inet-prefix-type>
    <demux-inet-prefix-count>demux-inet-prefix-count</demux-inet-prefix-count>
    <demux-inet-prefix>demux-inet-prefix</demux-inet-prefix>
    <demux-inet6-prefix-type>demux-inet6-prefix-type</demux-inet6-prefix-type>
    <demux-inet6-prefix-count>demux-inet6-prefix-count</demux-inet6-prefix-count>
    <demux-inet6-prefix>demux-inet6-prefix</demux-inet6-prefix>
  </demux-interface>
</logical-interface | demux-information>
```

Description No documentation is available yet.

Contents <demux-inet-prefix>—IPv4 Prefix.

<demux-inet-prefix-count>—IPv4 Prefix count.

<demux-inet-prefix-type>—Prefix type.

<demux-inet6-prefix>—IPv6 Prefix.

<demux-inet6-prefix-count>—IPv6 Prefix count.

<demux-inet6-prefix-type>—Prefix type.

<demux-underlying-interface-index>—Underlying interface index.

<demux-underlying-interface-name>—Underlying interface name.

<destination-class>

Usage
```
<destination-class-statistics>
  <destination-class>
    <dcu-class-name>dcu-class-name</dcu-class-name>
    <dcu-class-packets>dcu-class-packets</dcu-class-packets>
    <dcu-class-bytes>dcu-class-bytes</dcu-class-bytes>
    <dcu-class-pps>dcu-class-pps</dcu-class-pps>
    <dcu-class-bps>dcu-class-bps</dcu-class-bps>
  </destination-class>
</destination-class-statistics>
```

Description DCU statistics for a single class.

Contents <dcu-class-bps>—Bit-per-seconds counted by DCU for this class.

<dcu-class-bytes>—Number of bytes counted by DCU for this class.

<dcu-class-name>—Name of DCU class.

<dcu-class-packets>—Number of packets counted by DCU for this class.

<dcu-class-pps>—Packet-per-seconds counted by DCU for this class.

<destination-class-statistics>

Usage
```
<address-family>
  <destination-class-statistics>
    <destination-class>...</destination-class>
  </destination-class-statistics>
</address-family>
```

Description Destination class usage (DCU) statistics.

Contents <destination-class>—DCU statistics for a single class.

<dial-string-list>

Usage
```
<dialer-interface>
  <dial-string-list>
    <dial-string>dial-string</dial-string>
  </dial-string-list>
</dialer-interface>
```

Description No documentation is available yet.

Contents <dial-string>—Dial string.

<dialer-information>

Usage

```
<logical-interface>
  <dialer-information>
    <dialer-interface>...</dialer-interface>
    <dialer-time-to-disconnect>dialer-time-to-disconnect
                    </dialer-time-to-disconnect>
  </dialer-information>
</logical-interface>
```

Description Dialer information.

Contents <dialer-interface>—No documentation is available yet.

<dialer-time-to-disconnect>—Time for dialer to disconnect due to idle timeout.

<dialer-interface>

Usage

```
<dialer-interface-information | dialer-information>
  <dialer-interface>
    <dialer-interface-name>dialer-interface-name</dialer-interface-name>
    <dialer-interface-state>dialer-interface-state</dialer-interface-state>
    <dialer-interface-flags>...</dialer-interface-flags>
    <pool-id>pool-id</pool-id>
    <primary-interface>primary-interface</primary-interface>
    <dial-string-list>...</dial-string-list>
    <sub-interface-list>...</sub-interface-list>
    <watch-list>...</watch-list>
    <activation-delay>activation-delay</activation-delay>
    <deactivation-delay>deactivation-delay</deactivation-delay>
    <activation-delay-elapsed>activation-delay-elapsed</activation-delay-elapsed>
    <deactivation-delay-elapsed>deactivation-delay-elapsed
                </deactivation-delay-elapsed>
    <call-idle-timeout>call-idle-timeout</call-idle-timeout>
    <initial-route-check>initial-route-check</initial-route-check>
    <redial-delay>redial-delay</redial-delay>
    <callback-wait-period>callback-wait-period</callback-wait-period>
    <callback-wait-period-elapsed>callback-wait-period-elapsed
                </callback-wait-period-elapsed>
    <load-threshold>load-threshold</load-threshold>
    <load-interval>load-interval</load-interval>
  </dialer-interface>
</dialer-interface-information | dialer-information>
```

Description No documentation is available yet.

Contents

<activation-delay>—Activation delay.

<activation-delay-elapsed>—Activation delay elapsed.

<call-idle-timeout>—Call idle timeout.

<callback-wait-period>—Delay before dialer attempts callback (seconds).

<callback-wait-period-elapsed>—Number of seconds in callback wait period that have elapsed.

<deactivation-delay>—Deactivation delay.

<deactivation-delay-elapsed>—Deactivation delay elapsed.

<dial-string-list>—No documentation is available yet.

<dialer-interface-flags>—Flags indicating interface configuration.

<dialer-interface-name>—Interface name.

<dialer-interface-state>—Dialer interface state.

<initial-route-check>—Initial route check delay.

<load-interval>—Interval over which average load is calculated.

<load-threshold>—Load threshold that determines when interfaces are added to bundle.

<pool-id>—Pool identifier.

<primary-interface>—Primary interface.

<redial-delay>—Delay before dialer dials out again (seconds).

<sub-interface-list>—No documentation is available yet.

<watch-list>—No documentation is available yet.

<dialer-interface-flags>

Usage

```
<dialer-interface>
  <dialer-interface-flags>
    <backup/>
    <multilink/>
    <watchlist/>
    <interesting-detected/>
  </dialer-interface-flags>
</dialer-interface>
```

Description Flags indicating interface configuration.

Contents <backup>—Dialer backup.

<interesting-detected>—Interesting packet detected.

<multilink>—Dialer multilink.

<watchlist>—Dialer watchlist.

<dialer-interface-information>

Usage

```
<rpc-reply>
  <dialer-interface-information>
    <dialer-interface>...</dialer-interface>
  </dialer-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dialer-interface>—No documentation is available yet.

<dlci-statistics>

Usage

```
<virtual-circuit-information>
  <dlci-statistics>
    <dlci-active>dlci-active</dlci-active>
    <dlci-inactive>dlci-inactive</dlci-inactive>
  </dlci-statistics>
</virtual-circuit-information>
```

Description DLCI statistics for an interface.

Contents <dlci-active>—Number of DLCIs in active state.

<dlci-inactive>—Number of DLCIs in inactive state.

<ds0-bert-information>

Usage

```
<physical-interface>
  <ds0-bert-information>
    <ds0-bert-period>ds0-bert-period</ds0-bert-period>
    <ds0-bert-elapsed>ds0-bert-elapsed</ds0-bert-elapsed>
    <ds0-bert-status>ds0-bert-status</ds0-bert-status>
    <ds0-bert-algorithm>ds0-bert-algorithm</ds0-bert-algorithm>
    <ds0-bert-error-rate>ds0-bert-error-rate</ds0-bert-error-rate>
    <ds0-bert-induced-error-rate>ds0-bert-induced-error-rate
                </ds0-bert-induced-error-rate>
    <ds0-bert-bit-count>ds0-bert-bit-count</ds0-bert-bit-count>
    <ds0-bert-error-bit-count>ds0-bert-error-bit-count</ds0-bert-error-bit-count>
    <ds0-bert-los-status>ds0-bert-los-status</ds0-bert-los-status>
    <ds0-bert-los-count>ds0-bert-los-count</ds0-bert-los-count>
    <ds0-bert-los-seconds>ds0-bert-los-seconds</ds0-bert-los-seconds>
  </ds0-bert-information>
</physical-interface>
```

Description DS0 BERT configuration and statistics.

Contents

<ds0-bert-algorithm>—No documentation is available yet.

<ds0-bert-bit-count>—No documentation is available yet.

<ds0-bert-elapsed>—No documentation is available yet.

<ds0-bert-error-bit-count>—No documentation is available yet.

<ds0-bert-error-rate>—No documentation is available yet.

<ds0-bert-induced-error-rate>—No documentation is available yet.

<ds0-bert-los-count>—No documentation is available yet.

<ds0-bert-los-seconds>—No documentation is available yet.

<ds0-bert-los-status>—No documentation is available yet.

<ds0-bert-period>—No documentation is available yet.

<ds0-bert-status>—No documentation is available yet.

<ds1-bert-information>

Usage

```
<physical-interface>
  <ds1-bert-information>
    <ds1-bert-period>ds1-bert-period</ds1-bert-period>
    <ds1-bert-elapsed>ds1-bert-elapsed</ds1-bert-elapsed>
    <ds1-bert-status>ds1-bert-status</ds1-bert-status>
    <ds1-bert-algorithm>ds1-bert-algorithm</ds1-bert-algorithm>
    <ds1-bert-error-rate>ds1-bert-error-rate</ds1-bert-error-rate>
    <ds1-bert-induced-error-rate>ds1-bert-induced-error-rate
                </ds1-bert-induced-error-rate>
    <ds1-bert-bit-count>ds1-bert-bit-count</ds1-bert-bit-count>
    <ds1-bert-error-bit-count>ds1-bert-error-bit-count</ds1-bert-error-bit-count>
    <ds1-bert-los-status>ds1-bert-los-status</ds1-bert-los-status>
    <ds1-bert-los-count>ds1-bert-los-count</ds1-bert-los-count>
    <ds1-bert-los-seconds>ds1-bert-los-seconds</ds1-bert-los-seconds>
  </ds1-bert-information>
</physical-interface>
```

Description DS1 BERT configuration and statistics.

Contents <ds1-bert-algorithm>—No documentation is available yet.

<ds1-bert-bit-count>—No documentation is available yet.

<ds1-bert-elapsed>—No documentation is available yet.

<ds1-bert-error-bit-count>—No documentation is available yet.

<ds1-bert-error-rate>—No documentation is available yet.

<ds1-bert-induced-error-rate>—No documentation is available yet.

<ds1-bert-los-count>—No documentation is available yet.

<ds1-bert-los-seconds>—No documentation is available yet.

<ds1-bert-los-status>—No documentation is available yet.

<ds1-bert-period>—No documentation is available yet.

<ds1-bert-status>—No documentation is available yet.

<ds1-crc-alarm-threshold>

Usage

```
<physical-interface>
  <ds1-crc-alarm-threshold>
    <ds1-crc-alarm-threshold-major>ds1-crc-alarm-threshold-major
                </ds1-crc-alarm-threshold-major>
    <ds1-crc-alarm-threshold-minor>ds1-crc-alarm-threshold-minor
                </ds1-crc-alarm-threshold-minor>
  </ds1-crc-alarm-threshold>
</physical-interface>
```

Description DS1 CRC alarm thresholds.

Contents <ds1-crc-alarm-threshold-major>—Threshold for CRC Major alarm.

<ds1-crc-alarm-threshold-minor>—Threshold for CRC Minor alarm.

<ds3-bert-information>

Usage

```
<physical-interface>
  <ds3-bert-information>
    <ds3-bert-period>ds3-bert-period</ds3-bert-period>
    <ds3-bert-elapsed>ds3-bert-elapsed</ds3-bert-elapsed>
    <ds3-bert-status>ds3-bert-status</ds3-bert-status>
    <ds3-bert-algorithm>ds3-bert-algorithm</ds3-bert-algorithm>
    <ds3-bert-error-rate>ds3-bert-error-rate</ds3-bert-error-rate>
    <ds3-bert-induced-error-rate>ds3-bert-induced-error-rate
            </ds3-bert-induced-error-rate>
    <ds3-bert-bit-count>ds3-bert-bit-count</ds3-bert-bit-count>
    <ds3-bert-bit-count-overflow>ds3-bert-bit-count-overflow
            </ds3-bert-bit-count-overflow>
    <ds3-bert-error-bit-count>ds3-bert-error-bit-count</ds3-bert-error-bit-count>
    <ds3-bert-error-bit-count-overflow>ds3-bert-error-bit-count-overflow
            </ds3-bert-error-bit-count-overflow>
    <ds3-bert-los-status>ds3-bert-los-status</ds3-bert-los-status>
    <ds3-bert-los-count>ds3-bert-los-count</ds3-bert-los-count>
    <ds3-bert-los-seconds>ds3-bert-los-seconds</ds3-bert-los-seconds>
  </ds3-bert-information>
</physical-interface>
```

Description DS3 BERT configuration and statistics.

Contents

<ds3-bert-algorithm>—No documentation is available yet.

<ds3-bert-bit-count>—No documentation is available yet.

<ds3-bert-bit-count-overflow>—No documentation is available yet.

<ds3-bert-elapsed>—No documentation is available yet.

<ds3-bert-error-bit-count>—No documentation is available yet.

<ds3-bert-error-bit-count-overflow>—No documentation is available yet.

<ds3-bert-error-rate>—No documentation is available yet.

<ds3-bert-induced-error-rate>—No documentation is available yet.

<ds3-bert-los-count>—No documentation is available yet.

<ds3-bert-los-seconds>—No documentation is available yet.

<ds3-bert-los-status>—No documentation is available yet.

<ds3-bert-period>—No documentation is available yet.

<ds3-bert-status>—No documentation is available yet.

<dsl-chipset-information>

Usage

```
<dsl-information>
  <dsl-chipset-information>
    <atu-r-vendor-id>atu-r-vendor-id</atu-r-vendor-id>
    <atu-c-vendor-id>atu-c-vendor-id</atu-c-vendor-id>
    <atu-r-vendor-specific>atu-r-vendor-specific</atu-r-vendor-specific>
    <atu-c-vendor-specific>atu-c-vendor-specific</atu-c-vendor-specific>
    <atu-r-country-code>atu-r-country-code</atu-r-country-code>
    <atu-c-country-code>atu-c-country-code</atu-c-country-code>
  </dsl-chipset-information>
</dsl-information>
```

Description No documentation is available yet.

Contents <atu-c-country-code>—Country code for ATU-C chipset vendor.

<atu-c-vendor-id>—ATU-C ITU chipset vendor ID.

<atu-c-vendor-specific>—ATU-C vendor-specific data.

<atu-r-country-code>—Country code for ATU-R chipset vendor.

<atu-r-vendor-id>—ATU-R ITU chipset vendor ID.

<atu-r-vendor-specific>—ATU-R vendor-specific data.

<dsl-information>

Usage

```
<physical-interface>
  <dsl-information>
    <dsl-line-status>dsl-line-status</dsl-line-status>
    <dsl-line-operating-mode>dsl-line-operating-mode</dsl-line-operating-mode>
    <dsl-line-type>dsl-line-type</dsl-line-type>
    <adsl-annex-type>adsl-annex-type</adsl-annex-type>
    <adsl-last-fail-code>adsl-last-fail-code</adsl-last-fail-code>
    <adsl-subfunction>adsl-subfunction</adsl-subfunction>
    <adsl-seconds-in-showtime>adsl-seconds-in-showtime</adsl-seconds-in-showtime>
    <dsl-chipset-information>...</dsl-chipset-information>
    <dsl-statistics>...</dsl-statistics>
  </dsl-information>
</physical-interface>
```

Description Operational information and statistics for ADSL interfaces.

Contents <adsl-annex-type>—Type of ADSL annex.

<adsl-last-fail-code>—Reason for the last line-open failure.

<adsl-seconds-in-showtime>—Number of seconds the ADSL connection is in showtime state.

<adsl-subfunction>—Specified analog front-end chip and discrete front end.

<dsl-chipset-information>—No documentation is available yet.

<dsl-line-operating-mode>—Line type of digital subscriber line.

<dsl-line-status>—Status of modem.

<dsl-line-type>—Line type of digital subscriber line.

<dsl-statistics>—No documentation is available yet.

<dsl-statistics>

Usage

```
<dsl-information>
  <dsl-statistics>
    <near-end-attainable-bitrate>near-end-attainable-bitrate
                </near-end-attainable-bitrate>
    <far-end-attainable-bitrate>far-end-attainable-bitrate
                </far-end-attainable-bitrate>
    <near-end-attenuation>near-end-attenuation</near-end-attenuation>
    <far-end-attenuation>far-end-attenuation</far-end-attenuation>
    <near-end-capacity-used>near-end-capacity-used</near-end-capacity-used>
    <far-end-capacity-used>far-end-capacity-used</far-end-capacity-used>
    <near-end-noise-margin>near-end-noise-margin</near-end-noise-margin>
    <far-end-noise-margin>far-end-noise-margin</far-end-noise-margin>
    <near-end-output-power>near-end-output-power</near-end-output-power>
    <far-end-output-power>far-end-output-power</far-end-output-power>
    <interleaved-rx-cells>interleaved-rx-cells</interleaved-rx-cells>
    <fast-rx-cells>fast-rx-cells</fast-rx-cells>
    <interleaved-tx-cells>interleaved-tx-cells</interleaved-tx-cells>
    <fast-tx-cells>fast-tx-cells</fast-tx-cells>
    <near-end-interleaved-bitrate>near-end-interleaved-bitrate
                </near-end-interleaved-bitrate>
    <near-end-fast-bitrate>near-end-fast-bitrate</near-end-fast-bitrate>
    <far-end-interleaved-bitrate>far-end-interleaved-bitrate
                </far-end-interleaved-bitrate>
    <far-end-fast-bitrate>far-end-fast-bitrate</far-end-fast-bitrate>
    <near-end-interleaved-crc>near-end-interleaved-crc</near-end-interleaved-crc>
    <near-end-fast-crc>near-end-fast-crc</near-end-fast-crc>
    <far-end-interleaved-crc>far-end-interleaved-crc</far-end-interleaved-crc>
    <far-end-fast-crc>far-end-fast-crc</far-end-fast-crc>
    <near-end-interleaved-hec>near-end-interleaved-hec</near-end-interleaved-hec>
    <near-end-fast-hec>near-end-fast-hec</near-end-fast-hec>
    <far-end-interleaved-hec>far-end-interleaved-hec</far-end-interleaved-hec>
    <far-end-fast-hec>far-end-fast-hec</far-end-fast-hec>
    <near-end-interleaved-fec>near-end-interleaved-fec</near-end-interleaved-fec>
    <near-end-fast-fec>near-end-fast-fec</near-end-fast-fec>
    <far-end-interleaved-fec>far-end-interleaved-fec</far-end-interleaved-fec>
    <far-end-fast-fec>far-end-fast-fec</far-end-fast-fec>
    <near-end-interleaved-rx-cells>near-end-interleaved-rx-cells
                </near-end-interleaved-rx-cells>
    <near-end-fast-rx-cells>near-end-fast-rx-cells</near-end-fast-rx-cells>
    <near-end-interleaved-tx-cells>near-end-interleaved-tx-cells
                </near-end-interleaved-tx-cells>
    <near-end-fast-tx-cells>near-end-fast-tx-cells</near-end-fast-tx-cells>
  </dsl-statistics>
</dsl-information>
```

Description No documentation is available yet.

Contents <far-end-attainable-bitrate>—Far-end attainable bit rate.

<far-end-attenuation>—Far-end attenuation.

<far-end-capacity-used>—Far-end capacity used.

<far-end-fast-bitrate>—Far-end fast bit rate.

<far-end-fast-crc>—Far-end fast cyclic redundancy check.

<far-end-fast-fec>—Far-end fast footer error correction.

<far-end-fast-hec>—Far-end fast header error correction.

<far-end-interleaved-bitrate>—Far-end interleaved bit rate.

<far-end-interleaved-crc>—Far-end interleaved cyclic redundancy check correction.

<far-end-interleaved-fec>—Far-end interleaved footer error correction.

<far-end-interleaved-hec>—Far-end interleaved header error correction.

<far-end-noise-margin>—Far-end noise margin.

<far-end-output-power>—Far-end output power.

<fast-rx-cells>—Fast receiver cells.

<fast-tx-cells>—Fast transmitter cells.

<interleaved-rx-cells>—Interleaved receiver cells.

<interleaved-tx-cells>—Interleaved transmitter cells.

<near-end-attainable-bitrate>—Near-end attainable bit rate.

<near-end-attenuation>—Near-end attenuation.

<near-end-capacity-used>—Near-end capacity used.

<near-end-fast-bitrate>—Near-end fast bit rate.

<near-end-fast-crc>—Near-end fast cyclic redundancy check correction.

<near-end-fast-fec>—Near-end fast footer error correction.

<near-end-fast-hec>—Near-end fast header error correction.

<near-end-fast-rx-cells>—Near-end fast receiver cells.

<near-end-fast-tx-cells>—Near-end fast transmitter cells.

<near-end-interleaved-bitrate>—Near-end interleaved bit rate.

<near-end-interleaved-crc>—Near-end interleaved cyclic redundancy check correction.

<near-end-interleaved-fec>—Near-end interleaved footer error correction.

<near-end-interleaved-hec>—Near-end interleaved header error correction.

<near-end-interleaved-rx-cells>—Near-end interleaved receiver cells.

<near-end-interleaved-tx-cells>—Near-end interleaved transmitter cells.

<near-end-noise-margin>—Near-end noise margin.

<near-end-output-power>—Near-end output power.

<dsu-information>

Usage

```
<physical-interface>
  <dsu-information>
    <dsu-compatibility-mode>dsu-compatibility-mode</dsu-compatibility-mode>
    <dsu-scrambler>dsu-scrambler</dsu-scrambler>
    <dsu-subrate>dsu-subrate</dsu-subrate>
    <feac-loopback>feac-loopback</feac-loopback>
    <feac-response>feac-response</feac-response>
    <feac-count>feac-count</feac-count>
  </dsu-information>
</physical-interface>
```

Description DSU configuration and statistics.

Contents <dsu-compatibility-mode>—No documentation is available yet.

<dsu-scrambler>—No documentation is available yet.

<dsu-subrate>—No documentation is available yet.

<feac-count>—No documentation is available yet.

<feac-loopback>—No documentation is available yet.

<feac-response>—No documentation is available yet.

<dtr-circuit>

Usage

```
<serial-information>
  <dtr-circuit>
    <dtr-circuit-mode>dtr-circuit-mode</dtr-circuit-mode>
  </dtr-circuit>
</serial-information>
```

Description No documentation is available yet.

Contents <dtr-circuit-mode>—No documentation is available yet.

<e3-bert-information>

Usage

```
<physical-interface>
  <e3-bert-information>
    <e3-bert-period>e3-bert-period</e3-bert-period>
    <e3-bert-elapsed>e3-bert-elapsed</e3-bert-elapsed>
    <e3-bert-status>e3-bert-status</e3-bert-status>
    <e3-bert-algorithm>e3-bert-algorithm</e3-bert-algorithm>
    <e3-bert-error-rate>e3-bert-error-rate</e3-bert-error-rate>
    <e3-bert-induced-error-rate>e3-bert-induced-error-rate
                </e3-bert-induced-error-rate>
    <e3-bert-bit-count>e3-bert-bit-count</e3-bert-bit-count>
    <e3-bert-bit-count-overflow>e3-bert-bit-count-overflow
                </e3-bert-bit-count-overflow>
    <e3-bert-error-bit-count>e3-bert-error-bit-count</e3-bert-error-bit-count>
    <e3-bert-error-bit-count-overflow>e3-bert-error-bit-count-overflow
                </e3-bert-error-bit-count-overflow>
    <e3-bert-los-status>e3-bert-los-status</e3-bert-los-status>
    <e3-bert-los-count>e3-bert-los-count</e3-bert-los-count>
    <e3-bert-los-seconds>e3-bert-los-seconds</e3-bert-los-seconds>
  </e3-bert-information>
</physical-interface>
```

Description E3 BERT configuration and statistics.

Contents <e3-bert-algorithm>—No documentation is available yet.

<e3-bert-bit-count>—No documentation is available yet.

<e3-bert-bit-count-overflow>—No documentation is available yet.

<e3-bert-elapsed>—No documentation is available yet.

<e3-bert-error-bit-count>—No documentation is available yet.

<e3-bert-error-bit-count-overflow>—No documentation is available yet.

<e3-bert-error-rate>—No documentation is available yet.

<e3-bert-induced-error-rate>—No documentation is available yet.

<e3-bert-los-count>—No documentation is available yet.

<e3-bert-los-seconds>—No documentation is available yet.

<e3-bert-los-status>—No documentation is available yet.

<e3-bert-period>—No documentation is available yet.

<e3-bert-status>—No documentation is available yet.

<eia530-control-signal>

Usage

```
<serial-information>
  <eia530-control-signal>
    <mode>mode</mode>
    <to-dce>...</to-dce>
    <from-dce>...</from-dce>
    <to-dte>...</to-dte>
    <from-dte>...</from-dte>
  </eia530-control-signal>
</serial-information>
```

Description No documentation is available yet.

Contents <from-dce>—No documentation is available yet.

<from-dte>—No documentation is available yet.

<mode>—No documentation is available yet.

<to-dce>—No documentation is available yet.

<to-dte>—No documentation is available yet.

<eia530-signal-polarity>

Usage

```
<serial-information>
  <eia530-signal-polarity>
    <dtr-polarity>dtr-polarity</dtr-polarity>
    <rts-polarity>rts-polarity</rts-polarity>
    <dcd-polarity>dcd-polarity</dcd-polarity>
    <dsr-polarity>dsr-polarity</dsr-polarity>
    <cts-polarity>cts-polarity</cts-polarity>
    <tm-polarity>tm-polarity</tm-polarity>
  </eia530-signal-polarity>
</serial-information>
```

Description No documentation is available yet.

Contents <cts-polarity>—No documentation is available yet.

<dcd-polarity>—No documentation is available yet.

<dsr-polarity>—No documentation is available yet.

<dtr-polarity>—No documentation is available yet.

<rts-polarity>—No documentation is available yet.

<tm-polarity>—No documentation is available yet.

<es-ifd-stats>

Usage
```
<physical-interface>
  <es-ifd-stats>
    <total-anti-replay-count>total-anti-replay-count</total-anti-replay-count>
    <total-authentication-failure-count>total-authentication-failure-count
                </total-authentication-failure-count>
  </es-ifd-stats>
</physical-interface>
```

Description ES PIC statistics.

Contents <total-anti-replay-count>—Number of antireplay failures.

<total-authentication-failure-count>—Number of authentication failures.

<eth-switching-flags>

Usage
```
<bridge-iff-properties>
  <eth-switching-flags>
    <eth-switching-flags-value>eth-switching-flags-value
                </eth-switching-flags-value>
    <no-mac-learning-status>no-mac-learning-status</no-mac-learning-status>
  </eth-switching-flags>
</bridge-iff-properties>
```

Description Information about Ethernet-switching family flags.

Contents <eth-switching-flags-value>—Ethernet switching family flag value in hex.

<no-mac-learning-status>—Whether no-mac-learning is enabled or disabled.

<ether-policer-list>

Usage
```
<mac-policer-information>
  <ether-policer-list>
    <ether-policer-record>...</ether-policer-record>
  </ether-policer-list>
</mac-policer-information>
```

Description No documentation is available yet.

Contents <ether-policer-record>—No documentation is available yet.

<ether-policer-record>

Usage

```
<ether-policer-list>
  <ether-policer-record>
    <policer-type>policer-type</policer-type>
    <out-of-spec-bytes>out-of-spec-bytes</out-of-spec-bytes>
    <out-of-spec-frames>out-of-spec-frames</out-of-spec-frames>
  </ether-policer-record>
</ether-policer-list>
```

Description No documentation is available yet.

Contents <out-of-spec-bytes>—No documentation is available yet.

<out-of-spec-frames>—No documentation is available yet.

<policer-type>—No documentation is available yet.

<ethernet-autonegotiation>

Usage

```
<jswitch-port | physical-interface>
  <ethernet-autonegotiation>
    <autonegotiation-status>autonegotiation-status</autonegotiation-status>
    <link-partner-status>link-partner-status</link-partner-status>
    <link-partner-reason>link-partner-reason</link-partner-reason>
    <link-partner-duplexity>link-partner-duplexity</link-partner-duplexity>
    <link-partner-speed>link-partner-speed</link-partner-speed>
    <flow-control>flow-control</flow-control>
    <local-info>...</local-info>
  </ethernet-autonegotiation>
</jswitch-port | physical-interface>
```

Description Ethernet autonegotiation information.

Contents <autonegotiation-status>—No documentation is available yet.

<flow-control>—No documentation is available yet.

<link-partner-duplexity>—No documentation is available yet.

<link-partner-reason>—Reason link partner is down.

<link-partner-speed>—Link partner speed.

<link-partner-status>—Auto-negotiation status of link partner.

<local-info>—Auto-negotiation status of local partner.

<ethernet-filter-statistics>

Usage

```
<physical-interface>
  <ethernet-filter-statistics>
    <input-packets>input-packets</input-packets>
    <input-reject-count>input-reject-count</input-reject-count>
    <input-reject-destination-address-count>input-reject-destination-address-count
            </input-reject-destination-address-count>
    <input-reject-source-address-count>input-reject-source-address-count
            </input-reject-source-address-count>
    <output-packets>output-packets</output-packets>
    <output-packet-pad-count>output-packet-pad-count</output-packet-pad-count>
    <output-packet-error-count>output-packet-error-count
            </output-packet-error-count>
    <cam-destination-filter-count>cam-destination-filter-count
            </cam-destination-filter-count>
    <cam-source-filter-count>cam-source-filter-count</cam-source-filter-count>
  </ethernet-filter-statistics>
</physical-interface>
```

Description Ethernet filter statistics.

Contents <cam-destination-filter-count>—No documentation is available yet.

<cam-source-filter-count>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-reject-count>—No documentation is available yet.

<input-reject-destination-address-count>—No documentation is available yet.

<input-reject-source-address-count>—No documentation is available yet.

<output-packet-error-count>—No documentation is available yet.

<output-packet-pad-count>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<ethernet-mac-statistics>

Usage

```
<jswitch-port | physical-interface>
  <ethernet-mac-statistics>
    <input-bytes>input-bytes</input-bytes>
    <input-packets>input-packets</input-packets>
    <input-unicasts>input-unicasts</input-unicasts>
    <input-broadcasts>input-broadcasts</input-broadcasts>
    <input-multicasts>input-multicasts</input-multicasts>
    <input-crc-errors>input-crc-errors</input-crc-errors>
    <input-fifo-errors>input-fifo-errors</input-fifo-errors>
    <input-mac-control-frames>input-mac-control-frames</input-mac-control-frames>
    <input-mac-pause-frames>input-mac-pause-frames</input-mac-pause-frames>
    <input-oversized-frames>input-oversized-frames</input-oversized-frames>
    <input-undersized-frames>input-undersized-frames</input-undersized-frames>
    <input-jabber-frames>input-jabber-frames</input-jabber-frames>
    <input-fragment-frames>input-fragment-frames</input-fragment-frames>
    <input-vlan-tagged-frames>input-vlan-tagged-frames</input-vlan-tagged-frames>
    <input-code-violations>input-code-violations</input-code-violations>
    <input-policer-frame-drops>input-policer-frame-drops
            </input-policer-frame-drops>
    <input-policer-byte-drops>input-policer-byte-drops</input-policer-byte-drops>
    <output-bytes>output-bytes</output-bytes>
    <output-packets>output-packets</output-packets>
    <output-unicasts>output-unicasts</output-unicasts>
    <output-broadcasts>output-broadcasts</output-broadcasts>
    <output-multicasts>output-multicasts</output-multicasts>
    <output-crc-errors>output-crc-errors</output-crc-errors>
    <output-fifo-errors>output-fifo-errors</output-fifo-errors>
    <output-mac-control-frames>output-mac-control-frames
            </output-mac-control-frames>
    <output-mac-pause-frames>output-mac-pause-frames</output-mac-pause-frames>
  </ethernet-mac-statistics>
</jswitch-port | physical-interface>
```

Description Ethernet MAC statistics.

Contents

<input-broadcasts>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-code-violations>—No documentation is available yet.

<input-crc-errors>—No documentation is available yet.

<input-fifo-errors>—Number of FIFO errors in the receive direction as reported by the ASIC on the PIC. If this value is nonzero, the PIC is probably broken.

<input-fragment-frames>—No documentation is available yet.

<input-jabber-frames>—No documentation is available yet.

<input-mac-control-frames>—No documentation is available yet.

<input-mac-pause-frames>—No documentation is available yet.

<input-multicasts>—No documentation is available yet.

<input-oversized-frames>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-policer-byte-drops>—No documentation is available yet.

<input-policer-frame-drops>—No documentation is available yet.

<input-undersized-frames>—No documentation is available yet.

<input-unicasts>—No documentation is available yet.

<input-vlan-tagged-frames>—No documentation is available yet.

<output-broadcasts>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-crc-errors>—No documentation is available yet.

<output-fifo-errors>—No documentation is available yet.

<output-mac-control-frames>—No documentation is available yet.

<output-mac-pause-frames>—No documentation is available yet.

<output-multicasts>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<output-unicasts>—No documentation is available yet.

<ethernet-pcs-statistics>

Usage

```
<physical-interface>
  <ethernet-pcs-statistics>
    <bit-error-seconds>bit-error-seconds</bit-error-seconds>
    <errored-blocks-seconds>errored-blocks-seconds</errored-blocks-seconds>
  </ethernet-pcs-statistics>
</physical-interface>
```

Description Ethernet PCS statistics.

Contents <bit-error-seconds>—Bit error duration.

<errored-blocks-seconds>—Errored blocks duration.

<filter-information>

Usage

```
<logical-interface | address-family>
  <filter-information>
    <filter-family>filter-family</filter-family>
    <filter-input>filter-input</filter-input>
    <filter-input-precedence>filter-input-precedence</filter-input-precedence>
    <filter-output>filter-output</filter-output>
    <filter-output-precedence>filter-output-precedence</filter-output-precedence>
  </filter-information>
</logical-interface | address-family>
```

Description No documentation is available yet.

Contents

<filter-family>—Protocol family of the filter.

<filter-input>—Name of the input filter.

<filter-input-precedence>—Precedence of the input filter.

<filter-output>—Name of the output filter.

<filter-output-precedence>—Precedence of the output filter.

<fragments>

Usage

```
<bundle-detail | class-detail>
  <fragments>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </fragments>
</bundle-detail | class-detail>
```

Description Fragment statistics for multilink bundles and classes.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<from-dce>

Usage

```
<eia530-control-signal>
  <from-dce>
    <dtr>dtr</dtr>
    <rts>rts</rts>
    <cts>cts</cts>
    <dcd>dcd</dcd>
    <dsr>dsr</dsr>
    <tm>tm</tm>
  </from-dce>
</eia530-control-signal>
```

Description No documentation is available yet.

Contents <cts>—No documentation is available yet.

<dcd>—No documentation is available yet.

<dsr>—No documentation is available yet.

<dtr>—No documentation is available yet.

<rts>—No documentation is available yet.

<tm>—No documentation is available yet.

<from-dte>

Usage

```
<eia530-control-signal>
  <from-dte>
    <dtr>dtr</dtr>
    <rts>rts</rts>
    <cts>cts</cts>
    <dcd>dcd</dcd>
    <dsr>dsr</dsr>
    <tm>tm</tm>
  </from-dte>
</eia530-control-signal>
```

Description No documentation is available yet.

Contents <cts>—No documentation is available yet.

<dcd>—No documentation is available yet.

<dsr>—No documentation is available yet.

<dtr>—No documentation is available yet.

<rts>—No documentation is available yet.

<tm>—No documentation is available yet.

<hdlc-information>

Usage

```
<physical-interface>
  <hdlc-information>
    <hdlc-rx-bucket-state>hdlc-rx-bucket-state</hdlc-rx-bucket-state>
    <hdlc-rx-bit-rate>hdlc-rx-bit-rate</hdlc-rx-bit-rate>
    <hdlc-rx-threshold>hdlc-rx-threshold</hdlc-rx-threshold>
    <hdlc-tx-bit-rate>hdlc-tx-bit-rate</hdlc-tx-bit-rate>
    <hdlc-tx-bucket-state>hdlc-tx-bucket-state</hdlc-tx-bucket-state>
    <hdlc-tx-threshold>hdlc-tx-threshold</hdlc-tx-threshold>
    <hdlc-giant-threshold>hdlc-giant-threshold</hdlc-giant-threshold>
    <hdlc-runt-threshold>hdlc-runt-threshold</hdlc-runt-threshold>
  </hdlc-information>
</physical-interface>
```

Description No documentation is available yet.

Contents

<hdlc-giant-threshold>—No documentation is available yet.

<hdlc-runt-threshold>—No documentation is available yet.

<hdlc-rx-bit-rate>—No documentation is available yet.

<hdlc-rx-bucket-state>—No documentation is available yet.

<hdlc-rx-threshold>—No documentation is available yet.

<hdlc-tx-bit-rate>—No documentation is available yet.

<hdlc-tx-bucket-state>—No documentation is available yet.

<hdlc-tx-threshold>—No documentation is available yet.

<if-config-flags>

Usage

```
<physical-interface | logical-interface>
  <if-config-flags>
    <iff-none/>
    <iff-hardware-down/>
    <iff-down/>
    <iff-up/>
    <iff-admin-down/>
    <iff-admin-up/>
    <iff-link-down/>
    <iff-device-down/>
    <iff-point-to-point/>
    <iff-point-to-multipoint/>
    <plp-to-clp/>
    <iff-multiaccess/>
    <iff-change/>
    <iff-inverse-arp/>
    <iff-no-multicast/>
    <iff-multicast/>
    <iff-promiscuous/>
    <iff-all-multicast/>
    <iff-snmp-traps/>
    <iff-rx-passive/>
    <iff-tx-passive/>
    <iff-ccc-down/>
    <iff-clear-df/>
    <iff-tunnel-reassembly/>
    <iff-acfc/>
    <iff-pfc/>
    <iff-rdd/>
    <iff-looped/>
    <internal-flags>internal-flags</internal-flags>
  </if-config-flags>
</physical-interface | logical-interface>
```

Description No documentation is available yet.

Contents <iff-acfc>—PPP Address/Control field compression is enabled.

<iff-admin-down>—Interface is in test mode, which means that some sanity checking, such as loop detection, is disabled.

<iff-admin-up>—No documentation is available yet.

<iff-all-multicast>—No multicast filtering (multicast promiscuous).

<iff-ccc-down>—CCC/TCC endpoint is down.

<iff-change>—No documentation is available yet.

<iff-clear-df>—Clear Don't-Fragment bit.

<iff-device-down>—No documentation is available yet.

<iff-down>—No documentation is available yet.

<iff-hardware-down>—Interface is nonfunctional or incorrectly connected.

<iff-inverse-arp>—No documentation is available yet.

<iff-link-down>—Interface keepalives have indicated that the link is incomplete.

<iff-looped>—Logical interface is looped.

<iff-multiaccess>—No documentation is available yet.

<iff-multicast>—No documentation is available yet.

<iff-no-multicast>—Interface does not support multicast traffic.

<iff-none>—No documentation is available yet.

<iff-pfc>—PPP Protocol field compression is enabled.

<iff-point-to-multipoint>—No documentation is available yet.

<iff-point-to-point>—Interface is point-to-point.

<iff-promiscuous>—Interface is in promiscuous mode and will see frames addressed to all physical addresses.

<iff-rdd>—Redundancy device.

<iff-rx-passive>—Receive is disabled.

<iff-snmp-traps>—SNMP traps are enabled.

<iff-tunnel-reassembly>—Perform reassembly.

<iff-tx-passive>—Transmit is disabled.

<iff-up>—Interface is enabled and operational.

<internal-flags>—Hexadecimal value of internal flag bits.

<plp-to-clp>—No documentation is available yet.

<if-device-flags>

Usage

```
<physical-interface>
  <if-device-flags>
    <ifdf-none/>
    <ifdf-present/>
    <ifdf-running/>
    <ifdf-duplex/>
    <ifdf-down/>
    <ifdf-no-carrier/>
    <ifdf-error1/>
    <ifdf-error2/>
    <ifdf-no-multicast/>
    <ifdf-loopback/>
    <ifdf-quench/>
    <ifdf-recv-all-multicasts/>
    <ifdf-promiscuous/>
    <ifdf-link-layer-down/>
    <ifdf-loop-detected/>
    <ifdf-pfe-gone/>
    <generic-value>generic-value</generic-value>
  </if-device-flags>
</physical-interface>
```

Description No documentation is available yet.

Contents

<generic-value>—Hexadecimal value of unknown flag bits.

<ifdf-down>—Device has been administratively disabled.

<ifdf-duplex>—Device will hear its own transmissions.

<ifdf-error1>—No documentation is available yet.

<ifdf-error2>—No documentation is available yet.

<ifdf-link-layer-down>—Link-layer protocol failed to connect successfully with the remote end point.

<ifdf-loop-detected>—Link layer has received frames that it sent and suspects a physical loopback.

<ifdf-loopback>—Device is in physical loopback.

<ifdf-no-carrier>—Where the media supports carrier recognition, this indicates that no carrier is currently seen.

<ifdf-no-multicast>—Device does not support multicast traffic.

<ifdf-none>—No documentation is available yet.

<ifdf-pfe-gone>—No documentation is available yet.

<ifdf-present>—Device is physically present and recognized.

<ifdf-promiscuous>—Device is in promiscuous mode and will see frames addressed to all physical addresses on the media.

<ifdf-quench>—Device is quenched because it overran its output buffer.

<ifdf-recv-all-multicasts>—No multicast filtering (multicast promiscuous).

<ifdf-running>—Device is active and enabled.

<if-media-flags>

Usage

```
<physical-interface>
  <if-media-flags>
    <ifmf-none/>
    <ifmf-autoselect/>
    <ifmf-scheduler/>
    <ifmf-shared-scheduler/>
    <ifmf-keepalives/>
    <ifmf-no-keepalives/>
    <ifmf-give-up/>
    <ifmf-loose-lcp/>
    <ifmf-loose-ncp/>
    <ifmf-ppp-acfc/>
    <ifmf-ppp-pfc/>
    <ifmf-loose-lmi/>
    <ifmf-dce/>
    <ifmf-dte/>
    <generic-value>generic-value</generic-value>
  </if-media-flags>
</physical-interface>
```

Description No documentation is available yet.

Contents <generic-value>—Hexadecimal value of unknown flag bits.

<ifmf-autoselect>—No documentation is available yet.

<ifmf-dce>—No documentation is available yet.

<ifmf-dte>—No documentation is available yet.

<ifmf-give-up>—Link protocol will not continue to retry to connect after repeated failures.

<ifmf-keepalives>—Link protocol keepalives are enabled.

<ifmf-loose-lcp>—PPP will not use LCP to indicate whether the link protocol is up.

<ifmf-loose-lmi>—Frame Relay will not use LMI to indicate whether the link protocol is up.

<ifmf-loose-ncp>—PPP will not use NCP to indicate whether the device is up.

<ifmf-no-keepalives>—Link protocol keepalives are disabled.

<ifmf-none>—No documentation is available yet.

<ifmf-ppp-acfc>—PPP negotiates Address/Control field compression.

<ifmf-ppp-pfc>—PPP negotiates Protocol field compression.

<ifmf-scheduler>—No documentation is available yet.

<ifmf-shared-scheduler>—No documentation is available yet.

<ifa-flags>

Usage

```
<interface-address>
  <ifa-flags>
    <ifaf-none/>
    <ifaf-primary/>
    <ifaf-preferred/>
    <ifaf-master-only/>
    <ifaf-down/>
    <ifaf-kernel/>
    <ifaf-current-default/>
    <ifaf-current-preferred/>
    <ifaf-current-primary/>
    <ifaf-duplicate/>
    <ifaf-webauth-http/>
    <generic-value>generic-value</generic-value>
  </ifa-flags>
</interface-address>
```

Description No documentation is available yet.

Contents

<generic-value>—Hexadecimal value of unknown flag bits.

<ifaf-current-default>—SNMP, ping, traceroute, and other network utilities source this address (it is the router's default address).

<ifaf-current-preferred>—Packets sourced by the local router to destinations on the subnet use this address as the default local address.

<ifaf-current-primary>—Broadcast and multicast packets sourced locally and sent out the interface use this address by default as the local address.

<ifaf-down>—Software noticed that the link was down and changed the interface routes to be nonforwarding.

<ifaf-duplicate>—This address appears on another node attached to this interface.

<ifaf-kernel>—The kernel created this address after negotiating the address using IPCP.

<ifaf-master-only>—Address to use as the active management-only interface of the master Routing Engine.

<ifaf-none>—No documentation is available yet.

<ifaf-preferred>—This address is a candidate to become the preferred address.

<ifaf-primary>—This address is a candidate to become the primary address.

<ifaf-webauth-http>—Web-based firewall user authentication via HTTP is enabled for this address.

<ifvc-flags>

Usage

```
<virtual-circuit-information>
  <ifvc-flags>
    <ifvc-down/>
    <ifvc-none/>
    <ifvc-active/>
    <ifvc-closed/>
    <ifvc-inverse-arp/>
    <ifvc-ilmi/>
    <ifvc-oam/>
    <ifvc-shaping/>
    <ifvc-passiveoam/>
    <ifvc-multicast/>
    <ifvc-ccc-down/>
    <ifvc-configured/>
    <ifvc-unconfigured/>
    <generic-value>generic-value</generic-value>
  </ifvc-flags>
</virtual-circuit-information>
```

Description No documentation is available yet.

Contents <generic-value>—Hexadecimal value of unknown flag bits.

<ifvc-active>—No documentation is available yet.

<ifvc-ccc-down>—No documentation is available yet.

<ifvc-closed>—No documentation is available yet.

<ifvc-configured>—DCE-end is configured.

<ifvc-down>—No documentation is available yet.

<ifvc-ilmi>—No documentation is available yet.

<ifvc-inverse-arp>—No documentation is available yet.

<ifvc-multicast>—No documentation is available yet.

<ifvc-none>—No documentation is available yet.

<ifvc-oam>—No documentation is available yet.

<ifvc-passiveoam>—No documentation is available yet.

<ifvc-shaping>—No documentation is available yet.

<ifvc-unconfigured>—DCE-end is unconfigured.

<ifvc-multipoint-destination>

Usage
```
<virtual-circuit-information>
  <ifvc-multipoint-destination>
    <multipoint-address>multipoint-address</multipoint-address>
  </ifvc-multipoint-destination>
</virtual-circuit-information>
```

Description No documentation is available yet.

Contents <multipoint-address>—Protocol address of the remote side of this connection.

<ifvp-flags>

Usage
```
<virtual-path-information>
  <ifvp-flags>
    <ifvp-down/>
    <ifvp-none/>
    <ifvp-active/>
    <ifvp-closed/>
    <ifvp-oam/>
    <ifvp-shaping/>
    <ifvp-passiveoam/>
    <ifvp-tunnel/>
    <generic-value>generic-value</generic-value>
  </ifvp-flags>
</virtual-path-information>
```

Description No documentation is available yet.

Contents <generic-value>—Hexadecimal value of unknown flag bits.

<ifvp-active>—No documentation is available yet.

<ifvp-closed>—No documentation is available yet.

<ifvp-down>—No documentation is available yet.

<ifvp-none>—No documentation is available yet.

<ifvp-oam>—No documentation is available yet.

<ifvp-passiveoam>—No documentation is available yet.

<ifvp-shaping>—No documentation is available yet.

<ifvp-tunnel>—No documentation is available yet.

<ima-group-information>

Usage

```
<physical-interface>
  <ima-group-information>
    <media-alarm>...</media-alarm>
  </ima-group-information>
</physical-interface>
```

Description IMA group alarms.

Contents <media-alarm>—No documentation is available yet.

<ima-group-properties>

Usage

```
<physical-interface>
  <ima-group-properties>
    <ima-version>ima-version</ima-version>
    <ima-frame-length>ima-frame-length</ima-frame-length>
    <ima-differential-delay>ima-differential-delay</ima-differential-delay>
    <ima-symmetry>ima-symmetry</ima-symmetry>
    <ima-transmit-clock>ima-transmit-clock</ima-transmit-clock>
    <ima-tx-minimum-links>ima-tx-minimum-links</ima-tx-minimum-links>
    <ima-rx-minimum-links>ima-rx-minimum-links</ima-rx-minimum-links>
    <ima-frame-sync-alpha>ima-frame-sync-alpha</ima-frame-sync-alpha>
    <ima-frame-sync-beta>ima-frame-sync-beta</ima-frame-sync-beta>
    <ima-frame-sync-gamma>ima-frame-sync-gamma</ima-frame-sync-gamma>
    <ima-links>ima-links</ima-links>
    <ima-test-period>ima-test-period</ima-test-period>
    <ima-test-elapsed>ima-test-elapsed</ima-test-elapsed>
    <ima-test-status>ima-test-status</ima-test-status>
    <ima-test-pattern>ima-test-pattern</ima-test-pattern>
    <ima-test-link>ima-test-link</ima-test-link>
    <ima-test-result-pattern>ima-test-result-pattern</ima-test-result-pattern>
    <ima-test-result-status>ima-test-result-status</ima-test-result-status>
    <ima-test-result-miscon>ima-test-result-miscon</ima-test-result-miscon>
    <ima-test-result-mispat>ima-test-result-mispat</ima-test-result-mispat>
  </ima-group-properties>
</physical-interface>
```

Description No documentation is available yet.

Contents <ima-differential-delay>—IMA differential delay in milliseconds.

<ima-frame-length>—IMA frame length.

<ima-frame-sync-alpha>—Consecutive invalid ICP cells for IMA frame synchronization.

<ima-frame-sync-beta>—Consecutive errored ICP cells for IMA frame synchronization.

<ima-frame-sync-gamma>—Consecutive valid ICP cells for IMA frame synchronization.

<ima-links>—Links in this IMA group.

<ima-rx-minimum-links>—IMA receive minimum links.

<ima-symmetry>—IMA operation symmetry mode.

<ima-test-elapsed>—IMA Test elapsed time.

<ima-test-link>—IMA test procedure link.

<ima-test-pattern>—IMA test tx pattern.

<ima-test-period>—IMA Test period.

<ima-test-result-miscon>—IMA test misconnected seconds.

<ima-test-result-mispat>—IMA test mismatched pattern seconds.

<ima-test-result-pattern>—IMA test rx pattern.

<ima-test-result-status>—IMA test result.

<ima-test-status>—IMA test procedure status.

<ima-transmit-clock>—IMA transmit clock mode.

<ima-tx-minimum-links>—IMA transmit minimum links.

<ima-version>—IMA specification version.

<ima-link-information>

Usage

```
<physical-interface>
  <ima-link-information>
    <media-alarm>...</media-alarm>
  </ima-link-information>
</physical-interface>
```

Description IMA link alarms.

Contents <media-alarm>—No documentation is available yet.

<ima-link-properties>

Usage

```
<physical-interface>
  <ima-link-properties>
    <ima-group-id>ima-group-id</ima-group-id>
    <ima-link-direction>ima-link-direction</ima-link-direction>
  </ima-link-properties>
</physical-interface>
```

Description No documentation is available yet.

Contents <ima-group-id>—IMA group ID.

<ima-link-direction>—IMA link direction.

<ima-state>

Usage

```
<physical-interface>
  <ima-state>
    <media-type>media-type</media-type>
    <ima-state-line>ima-state-line</ima-state-line>
    <ima-state-near-end>ima-state-near-end</ima-state-near-end>
    <ima-state-far-end>ima-state-far-end</ima-state-far-end>
  </ima-state>
</physical-interface>
```

Description No documentation is available yet.

Contents <ima-state-far-end>—Far-end states of IMA group/link.

<ima-state-line>—Line state of IMA link.

<ima-state-near-end>—Near-end states of IMA group/link.

<media-type>—Type of media this information is for.

<in-arp-statistics>

Usage

```
<virtual-circuit-information | logical-interface>
  <in-arp-statistics>
    <received-count>received-count</received-count>
    <transmitted-count>transmitted-count</transmitted-count>
    <denied-count>denied-count</denied-count>
    <operation-not-supported-count>operation-not-supported-count
                </operation-not-supported-count>
    <bad-packet-length-count>bad-packet-length-count</bad-packet-length-count>
    <bad-protocol-count>bad-protocol-count</bad-protocol-count>
    <bad-protocol-length-count>bad-protocol-length-count
                </bad-protocol-length-count>
    <bad-hardware-length-count>bad-hardware-length-count
                </bad-hardware-length-count>
    <dropped-count>dropped-count</dropped-count>
    <last-received>last-received</last-received>
    <last-transmitted>last-transmitted</last-transmitted>
  </in-arp-statistics>
</virtual-circuit-information | logical-interface>
```

Description Container tag for ARP statistics.

Contents <bad-hardware-length-count>—Number of ARPs with bad hardware length.

<bad-packet-length-count>—Number of ARPs with bad packet length.

<bad-protocol-count>—Number of ARPs with bad protocol.

<bad-protocol-length-count>—Number of ARPs with bad protocol length.

<denied-count>—Number of ARPs denied.

<dropped-count>—Number of ARPs dropped.

<last-received>—Time an ARP was last received.

<last-transmitted>—Time an ARP was last sent.

<operation-not-supported-count>—Number of ARPs with operation not supported.

<received-count>—Number of ARPs received.

<transmitted-count>—Number of ARPs sent.

<in6-addr-flags>

Usage

```
<interface-address>
  <in6-addr-flags>
    <in6-anycast/>
    <in6-tentative/>
    <in6-duplicate/>
    <in6-detached/>
    <in6-deprecated/>
    <in6-nodad/>
    <in6-temporary/>
    <in6-autoconf/>
    <in6-nopfxmgmt/>
  </in6-addr-flags>
</interface-address>
```

Description No documentation is available yet.

Contents <in6-anycast>—No documentation is available yet.

<in6-autoconf>—No documentation is available yet.

<in6-deprecated>—No documentation is available yet.

<in6-detached>—No documentation is available yet.

<in6-duplicate>—No documentation is available yet.

<in6-nodad>—No documentation is available yet.

<in6-nopfxmgmt>—No documentation is available yet.

<in6-temporary>—No documentation is available yet.

<in6-tentative>—No documentation is available yet.

<ingress-queue-counters>

Usage

```
<logical-interface | physical-interface | interface-set-queue-information>
  <ingress-queue-counters>
    <interface-chassis-cos-summary>...</interface-chassis-cos-summary>
    <queue>...</queue>
    <interface-cos-summary>...</interface-cos-summary>
    <interface-cos-short-summary>...</interface-cos-short-summary>
  </ingress-queue-counters>
</logical-interface | physical-interface | interface-set-queue-information>
```

Description Ingress queue counter statistics.

Contents <interface-chassis-cos-summary>—Packet Forwarding Engine chassis forwarding class and queue information for an interface.

<interface-cos-short-summary>—Summary of queue information on an interface.

<interface-cos-summary>—Summary of forwarding class and queue information on an interface.

<queue>—Counters for a single queue.

<ingress-traffic-statistics>

Usage

```
<physical-interface | logical-interface>
  <ingress-traffic-statistics>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <input-packets>input-packets</input-packets>
    <input-pps>input-pps</input-pps>
    <input-drop-bytes>input-drop-bytes</input-drop-bytes>
    <input-drop-packets>input-drop-packets</input-drop-packets>
    <input-drop-bps>input-drop-bps</input-drop-bps>
    <input-drop-pps>input-drop-pps</input-drop-pps>
  </ingress-traffic-statistics>
</physical-interface | logical-interface>
```

Description Number and rate of bytes and packets received in the ingress side at Packet Forwarding Engine.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-drop-bps>—Drop rate at ingress in bits per second .

<input-drop-bytes>—Drop statistics at ingress in bytes.

<input-drop-packets>—Drop statistics at ingress in packets.

<input-drop-pps>—Drop rate at ingress in packets per second .

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<input-error-list>

Usage

```
<physical-interface>
  <input-error-list>
    <input-errors>input-errors</input-errors>
    <input-drops>input-drops</input-drops>
    <invalid-vcs>invalid-vcs</invalid-vcs>
    <framing-errors>framing-errors</framing-errors>
    <input-runts>input-runts</input-runts>
    <input-giants>input-giants</input-giants>
    <input-bucket-drops>input-bucket-drops</input-bucket-drops>
    <input-discards>input-discards</input-discards>
    <input-l3-incompletes>input-l3-incompletes</input-l3-incompletes>
    <input-l2-channel-errors>input-l2-channel-errors</input-l2-channel-errors>
    <input-l2-mismatch-timeouts>input-l2-mismatch-timeouts
                </input-l2-mismatch-timeouts>
    <input-fifo-errors>input-fifo-errors</input-fifo-errors>
    <hs-link-crc-errors>hs-link-crc-errors</hs-link-crc-errors>
    <hs-link-fifo-overflows>hs-link-fifo-overflows</hs-link-fifo-overflows>
    <sram-errors>sram-errors</sram-errors>
    <input-resource-errors>input-resource-errors</input-resource-errors>
  </input-error-list>
</physical-interface>
```

Description Input errors on this interface.

Contents <framing-errors>—No documentation is available yet.

<hs-link-crc-errors>—Count of errors on the high-speed links between the ASICs responsible for handling the router interfaces.

<hs-link-fifo-overflows>—Count of errors on the high-speed links between the ASICs responsible for handling the router interfaces.

<input-bucket-drops>—No documentation is available yet.

<input-discards>—Frames that the incoming packet match code discarded because they were not recognized or of interest. Usually, this field reports protocols that the JUNOS Software does not handle, such as CDP.

<input-drops>—No documentation is available yet.

<input-errors>—Sum of the incoming frame aborts and FCS errors.

<input-fifo-errors>—Number of FIFO errors in the receive direction as reported by the ASIC on the PIC. If this value is nonzero, the PIC is probably broken.

<input-giants>—No documentation is available yet.

<input-l2-channel-errors>—This counter increments when the software cannot find a valid logical interface (for example, s0-6/0/3.0) for an incoming frame.

<input-l2-mismatch-timeouts>—Count of malformed or short packets that cause the incoming packet handler to discard the frame as unreadable.

<input-l3-incompletes>—This counter is incremented when the incoming packet fails Layer 3 (usually IPv4) sanity checks of the header. For example, a frame with less than 20 bytes of available IP header would be discarded and this counter would be incremented.

<input-resource-errors>—Sum of B chip Rx drops and IXP Rx net receive drops.

<input-runts>—No documentation is available yet.

<invalid-vcs>—No documentation is available yet.

<sram-errors>—No documentation is available yet.

<interface-address>

Usage

```
<address-family>
  <interface-address>
    <ifa-flags>...</ifa-flags>
    <generation>generation</generation>
    <ifa-destination>ifa-destination</ifa-destination>
    <ifa-local>ifa-local</ifa-local>
    <in6-addr-flags>...</in6-addr-flags>
    <ifa-broadcast>ifa-broadcast</ifa-broadcast>
    <ifa-primary-dns>ifa-primary-dns</ifa-primary-dns>
    <ifa-primary-nbns>ifa-primary-nbns</ifa-primary-nbns>
    <ifa-secondary-dns>ifa-secondary-dns</ifa-secondary-dns>
    <ifa-secondary-nbns>ifa-secondary-nbns</ifa-secondary-nbns>
    <ifa-address-pool>ifa-address-pool</ifa-address-pool>
  </interface-address>
</address-family>
```

Description No documentation is available yet.

Contents <generation>—Generation number used to distinguish between successive instances of this interface.

<ifa-address-pool>—Address pool name.

<ifa-broadcast>—Network broadcast address.

<ifa-destination>—Protocol address of the remote side of this connection.

<ifa-flags>—No documentation is available yet.

<ifa-local>—Protocol address on this interface.

<ifa-primary-dns>—Primary DNS server address.

<ifa-primary-nbns>—Primary Netbios Name server address.

<ifa-secondary-dns>—Secondary DNS server address.

<ifa-secondary-nbns>—Secondary Netbios Name server address.

<in6-addr-flags>—No documentation is available yet.

<interface-alarms>

Usage <active-alarms | active-defects | active-alarms-otn | active-defects-otn>

```
<interface-alarms>
  <alarm-not-present/>
  <sonet-alarm-lol/>
  <sonet-alarm-pll/>
  <sonet-alarm-lof/>
  <sonet-alarm-los/>
  <sonet-alarm-sef/>
  <sonet-alarm-lais/>
  <sonet-alarm-pais/>
  <sonet-alarm-lop/>
  <sonet-alarm-berr-sd/>
  <sonet-alarm-berr-sf/>
  <sonet-alarm-lrdi/>
  <sonet-alarm-prdi/>
  <sonet-alarm-rei/>
  <sonet-alarm-uneq/>
  <sonet-alarm-pmis/>
  <sonet-alarm-loc/>
  <sonet-alarm-vais/>
  <sonet-alarm-vlop/>
  <sonet-alarm-vrdi/>
  <sonet-alarm-vuneq/>
  <sonet-alarm-vmis/>
  <sonet-alarm-vloc/>
  <sdh-alarm-lol/>
  <sdh-alarm-pll/>
  <sdh-alarm-lof/>
  <sdh-alarm-los/>
  <sdh-alarm-oof/>
  <sdh-alarm-msais/>
  <sdh-alarm-hpais/>
  <sdh-alarm-lop/>
  <sdh-alarm-berr-sd/>
  <sdh-alarm-berr-sf/>
  <sdh-alarm-msferf/>
  <sdh-alarm-hpferf/>
  <sdh-alarm-hpfebe/>
  <sdh-alarm-hpuneq/>
  <sdh-alarm-hpplm/>
  <sdh-alarm-loc/>
  <sdh-alarm-tuais/>
  <sdh-alarm-tulop/>
  <sdh-alarm-turdi/>
  <sdh-alarm-tuuneq/>
  <sdh-alarm-tumis/>
  <sdh-alarm-tuloc/>
  <ds3-alarm-pll/>
  <ds3-alarm-ais/>
  <ds3-alarm-lof/>
  <ds3-alarm-los/>
  <ds3-alarm-lcv/>
```

<ds3-alarm-exz/>
<ds3-alarm-ferf/>
<ds3-alarm-ylw/>
<ds3-alarm-idle/>
<ds1-alarm-ais/>
<ds1-alarm-lof/>
<ds1-alarm-los/>
<ds1-alarm-ylw/>
<ds1-alarm-crc-major/>
<ds1-alarm-crc-minor/>
<dsl-alarm-lof/>
<dsl-alarm-los/>
<dsl-alarm-lom/>
<dsl-alarm-locdi/>
<dsl-alarm-locdni/>
<dsl-alarm-lop/>
<dsl-alarm-far-lof/>
<dsl-alarm-far-los/>
<dsl-alarm-far-locdi/>
<dsl-alarm-far-locdni/>
<ethernet-alarm-link-down/>
<ethernet-alarm-lcdp/>
<isdn-alarm-los/>
<isdn-alarm-lof/>
<shdsl-alarm-losd/>
<shdsl-alarm-losw/>
<shdsl-alarm-line1-losd/>
<shdsl-alarm-line1-losw/>
<shdsl-alarm-line2-losd/>
<shdsl-alarm-line2-losw/>
<otn-alarm-los/>
<otn-alarm-lof/>
<otn-alarm-lom/>
<otn-alarm-wavelength-lock/>
<otn-alarm-otu-ais/>
<otn-alarm-otu-bdi/>
<otn-alarm-otu-ttim/>
<otn-alarm-otu-iae/>
<otn-alarm-otu-sd/>
<otn-alarm-otu-sf/>
<otn-alarm-otu-fec-excessive/>
<otn-alarm-otu-fec-degraded/>
<otn-alarm-otu-threshold-bbe/>
<otn-alarm-otu-threshold-es/>
<otn-alarm-otu-threshold-ses/>
<otn-alarm-otu-threshold-uas/>
<otn-alarm-odu-ais/>
<otn-alarm-odu-oci/>
<otn-alarm-odu-lck/>
<otn-alarm-odu-bdi/>
<otn-alarm-odu-ttim/>
<otn-alarm-odu-sd/>
<otn-alarm-odu-sf/>
<otn-alarm-odu-rx-aps-change/>

```
    <otn-alarm-odu-threshold-bbe/>
    <otn-alarm-odu-threshold-es/>
    <otn-alarm-odu-threshold-ses/>
    <otn-alarm-odu-threshold-uas/>
    <otn-alarm-opu-pmi/>
    <ima-alarm-startup-fe/>
    <ima-alarm-config-abort/>
    <ima-alarm-config-abort-fe/>
    <ima-alarm-insufficient-links/>
    <ima-alarm-insufficient-links-fe/>
    <ima-alarm-blocked/>
    <ima-alarm-blocked-fe/>
    <ima-alarm-timing-mismatch/>
    <ima-alarm-version-mismatch/>
    <ima-alarm-lif/>
    <ima-alarm-lods/>
    <ima-alarm-rdi/>
    <ima-alarm-tx-misconnected/>
    <ima-alarm-rx-misconnected/>
    <ima-alarm-fault/>
    <ima-alarm-tx-unusable-fe/>
    <ima-alarm-rx-unusable-fe/>
    <generic-value>generic-value</generic-value>
  </interface-alarms>
</active-alarms | active-defects | active-alarms-otn | active-defects-otn>
```

Description Container tag for interface alarms.

Contents <alarm-not-present>—No alarm indicated.

<ds1-alarm-ais>—AIS alarm.

<ds1-alarm-crc-major>—CRC errors crossed major threshold.

<ds1-alarm-crc-minor>—CRC errors crossed minor threshold.

<ds1-alarm-lof>—Loss of frame alarm.

<ds1-alarm-los>—Loss of signal alarm.

<ds1-alarm-ylw>—Yellow alarm.

<ds3-alarm-ais>—AIS alarm.

<ds3-alarm-exz>—Excessive zeros alarm.

<ds3-alarm-ferf>—Far-end receive failure alarm.

<ds3-alarm-idle>—Idle alarm.

<ds3-alarm-lcv>—Line code violation alarm.

<ds3-alarm-lof>—Loss of frame alarm.

<ds3-alarm-los>—Loss of signal alarm.

<ds3-alarm-pll>—PLL lock alarm.

<ds3-alarm-ylw>—Yellow alarm.

<dsl-alarm-far-locdi>—Far-end loss-of-cell-delineation alarm for interleaved channel.

<dsl-alarm-far-locdni>—Far-end loss-of-cell-delineation alarm for non-interleaved channel.

<dsl-alarm-far-lof>—Far-end loss-of-frame alarm.

<dsl-alarm-far-los>—Far-end loss-of-signal alarm.

<dsl-alarm-locdi>—Loss of cell delineation alarm for interleaved channel.

<dsl-alarm-locdni>—Loss of cell delineation alarm for non-interleaved channel.

<dsl-alarm-lof>—Loss of frame alarm.

<dsl-alarm-lom>—Loss of multiframe alarm.

<dsl-alarm-lop>—Loss of power alarm.

<dsl-alarm-los>—Loss of signal alarm.

<ethernet-alarm-lcdp>—Loss of code-group delineation.

<ethernet-alarm-link-down>—Link alive failure.

<generic-value>—Hexadecimal value of unknown flag bits.

<ima-alarm-blocked>—IMA group blocked alarm.

<ima-alarm-blocked-fe>—IMA group blocked far-end alarm.

<ima-alarm-config-abort>—IMA group config abort alarm.

<ima-alarm-config-abort-fe>—IMA group config abort far-end alarm.

<ima-alarm-fault>—IMA link fault alarm.

<ima-alarm-insufficient-links>—IMA group insufficient links alarm.

<ima-alarm-insufficient-links-fe>—IMA group insufficient links far-end alarm.

<ima-alarm-lif>—IMA link loss of IMA frame alarm.

<ima-alarm-lods>—IMA link out of delay synchronization alarm.

<ima-alarm-rdi>—IMA link remote defect indicator alarm.

<ima-alarm-rx-misconnected>—IMA link rx misconnected alarm.

<ima-alarm-rx-unusable-fe>—IMA link Tx unusable far-end alarm.

<ima-alarm-startup-fe>—IMA group startup far-end alarm.

<ima-alarm-timing-mismatch>—IMA group timing mismatch alarm.

<ima-alarm-tx-misconnected>—IMA link tx misconnected alarm.

<ima-alarm-tx-unusable-fe>—IMA link Tx unusable far-end alarm.

<ima-alarm-version-mismatch>—IMA group version mismatch alarm.

<isdn-alarm-lof>—Loss of frame alarm.

<isdn-alarm-los>—Loss of signal alarm.

<otn-alarm-lof>—Loss of frame alarm.

<otn-alarm-lom>—Loss of multiframe alarm.

<otn-alarm-los>—Loss of signal alarm.

<otn-alarm-odu-ais>—ODU Alarm Indiaction Signal alarm.

<otn-alarm-odu-bdi>—ODU Backward Defect Indication alarm.

<otn-alarm-odu-lck>—ODU Locked alarm.

<otn-alarm-odu-oci>—ODU Open Connection Indication alarm.

<otn-alarm-odu-rx-aps-change>—ODU Rx Aps Change alarm.

<otn-alarm-odu-sd>—ODU Signal Degrade alarm.

<otn-alarm-odu-sf>—ODU Signal Fail alarm.

<otn-alarm-odu-threshold-bbe>—ODU Background Block Error threshold alarm.

<otn-alarm-odu-threshold-es>—ODU Errored Seconds threshold alarm.

<otn-alarm-odu-threshold-ses>—ODU Severely Errored Seconds threshold alarm.

<otn-alarm-odu-threshold-uas>—ODU Unavailable Seconds threshold alarm.

<otn-alarm-odu-ttim>—ODU Trail Trace Identifier Mismatch alarm.

<otn-alarm-opu-pmi>—OPU Payload Mismatch alarm.

<otn-alarm-otu-ais>—OTU Alarm Indication Signal alarm.

<otn-alarm-otu-bdi>—OTU Background Block Error alarm.

<otn-alarm-otu-fec-degraded>—OTU FEC Degraded alarm.

<otn-alarm-otu-fec-excessive>—OTU FEC Excessive alarm.

<otn-alarm-otu-iae>—OTU Incoming Alignment alarm.

<otn-alarm-otu-sd>—OTU Signal Degrade alarm.

<otn-alarm-otu-sf>—OTU Signal Fail alarm.

<otn-alarm-otu-threshold-bbe>—OTU Background Block Error threshold alarm.

<otn-alarm-otu-threshold-es>—OTU Errored Seconds threshold alarm.

<otn-alarm-otu-threshold-ses>—OTU Severely Errored Seconds threshold alarm.

<otn-alarm-otu-threshold-uas>—OTU Unavailable Seconds threshold alarm.

<otn-alarm-otu-ttim>—OTU Trail Trace Identifier Mismatch alarm.

<otn-alarm-wavelength-lock>—Loss of Wavelength Lock alarm.

<sdh-alarm-berr-sd>—Bit error rate alarm, defect.

<sdh-alarm-berr-sf>—Bit error rate alarm, fault.

<sdh-alarm-hpais>—High order path AIS alarm.

<sdh-alarm-hpfebe>—High order path far-end block error alarm.

<sdh-alarm-hpferf>—High order path far-end remote failure alarm.

<sdh-alarm-hpplm>—High order path payload level mismatch alarm.

<sdh-alarm-hpuneq>—High order path unequipped alarm.

<sdh-alarm-loc>—Loss of cell delineation alarm.

<sdh-alarm-lof>—Loss of frame alarm.

<sdh-alarm-lol>—Loss of light alarm.

<sdh-alarm-lop>—Loss of pointer alarm.

<sdh-alarm-los>—Loss of signal alarm.

<sdh-alarm-msais>—Multiplex section AIS alarm.

<sdh-alarm-msferf>—Multiplex section far-end remote failure alarm.

<sdh-alarm-oof>—Out of frame alarm.

<sdh-alarm-pll>—PLL lock alarm.

<sdh-alarm-tuais>—TU AIS alarm.

<sdh-alarm-tuloc>—TU loss of cell delineation alarm.

<sdh-alarm-tulop>—TU loss of pointer alarm.

<sdh-alarm-tumis>—TU label mismatch error.

<sdh-alarm-turdi>—TU remote defect indicator alarm.

<sdh-alarm-tuuneq>—TU unequipped alarm.

<shdsl-alarm-line1-losd>—Loss of signal (line 1) alarm.

<shdsl-alarm-line1-losw>—Loss of sync word (line 1) alarm.

<shdsl-alarm-line2-losd>—Loss of signal (line 2) alarm.

<shdsl-alarm-line2-losw>—Loss of sync word (line 2) alarm.

<shdsl-alarm-losd>—Loss of signal alarm.

<shdsl-alarm-losw>—Loss of sync word alarm.

<sonet-alarm-berr-sd>—Bit error rate alarm, defect.

<sonet-alarm-berr-sf>—Bit error rate alarm, fault.

<sonet-alarm-lais>—Line AIS alarm.

<sonet-alarm-loc>—Loss of cell delineation alarm.

<sonet-alarm-lof>—Loss of frame alarm.

<sonet-alarm-lol>—Loss of light alarm.

<sonet-alarm-lop>—Loss of pointer alarm.

<sonet-alarm-los>—Loss of signal alarm.

<sonet-alarm-lrdi>—Line remote defect indicator alarm.

<sonet-alarm-pais>—Path AIS alarm.

<sonet-alarm-pll>—PLL lock alarm.

<sonet-alarm-pmis>—Path payload level mismatch alarm.

<sonet-alarm-prdi>—Path remote defect indicator alarm.

<sonet-alarm-rei>—Path remote error indicator alarm.

<sonet-alarm-sef>—Severely errored frame alarm.

<sonet-alarm-uneq>—Unequipped alarm.

<sonet-alarm-vais>—VT AIS alarm.

<sonet-alarm-vloc>—VT loss of cell delineation alarm.

<sonet-alarm-vlop>—VT loss of pointer alarm.

<sonet-alarm-vmis>—VT label mismatch alarm.

<sonet-alarm-vrdi>—VT remote defect indicator alarm.

<sonet-alarm-vuneq>—VT unequipped alarm.

<interface-chassis-cos-summary>

Usage
```
<ingress-queue-counters | chassis-queue-counters>
  <interface-chassis-cos-summary>
    <intf-cos-chassis-num-queues-supported>intf-cos-chassis-num-queues-supported
                </intf-cos-chassis-num-queues-supported>
    <intf-cos-chassis-num-queues-in-use>intf-cos-chassis-num-queues-in-use
                </intf-cos-chassis-num-queues-in-use>
  </interface-chassis-cos-summary>
</ingress-queue-counters | chassis-queue-counters>
```

Description Packet Forwarding Engine chassis forwarding class and queue information for an interface.

Contents <intf-cos-chassis-num-queues-in-use>—Number of Packet Forwarding Engine chassis queues in use on the interface.

<intf-cos-chassis-num-queues-supported>—Number of Packet Forwarding Engine chassis queues the interface supports.

<interface-cos-short-summary>

Usage
```
<queue-counters | ingress-queue-counters>
  <interface-cos-short-summary>
    <intf-cos-queue-type>intf-cos-queue-type</intf-cos-queue-type>
    <intf-cos-num-queues-supported>intf-cos-num-queues-supported
                </intf-cos-num-queues-supported>
    <intf-cos-num-queues-in-use>intf-cos-num-queues-in-use
                </intf-cos-num-queues-in-use>
  </interface-cos-short-summary>
</queue-counters | ingress-queue-counters>
```

Description Summary of queue information on an interface.

Contents <intf-cos-num-queues-in-use>—Number of queues currently in use on this interface.

<intf-cos-num-queues-supported>—Number of queues supported on this interface.

<intf-cos-queue-type>—Interface queue type.

<interface-cos-summary>

Usage

```
<queue-counters | ingress-queue-counters>
  <interface-cos-summary>
    <intf-cos-forwarding-classes-supported>intf-cos-forwarding-classes-supported
                </intf-cos-forwarding-classes-supported>
    <intf-cos-forwarding-classes-in-use>intf-cos-forwarding-classes-in-use
                </intf-cos-forwarding-classes-in-use>
    <intf-cos-queue-type>intf-cos-queue-type</intf-cos-queue-type>
    <intf-cos-num-queues-supported>intf-cos-num-queues-supported
                </intf-cos-num-queues-supported>
    <intf-cos-num-queues-in-use>intf-cos-num-queues-in-use
                </intf-cos-num-queues-in-use>
    <intf-cos-burst-size-for-ifl>intf-cos-burst-size-for-ifl
                </intf-cos-burst-size-for-ifl>
  </interface-cos-summary>
</queue-counters | ingress-queue-counters>
```

Description Summary of forwarding class and queue information on an interface.

Contents <intf-cos-burst-size-for-ifl>—Burst size for the logical interface.

<intf-cos-forwarding-classes-in-use>—Number of forwarding classes currently in use on this interface.

<intf-cos-forwarding-classes-supported>—Number of forwarding classes supported on this interface.

<intf-cos-num-queues-in-use>—Number of queues currently in use on this interface.

<intf-cos-num-queues-supported>—Number of queues supported on this interface.

<intf-cos-queue-type>—Interface queue type.

<interface-filter-information>

Usage

```
<rpc-reply>
  <interface-filter-information>
    <physical-interface>...</physical-interface>
    <logical-interface>...</logical-interface>
  </interface-filter-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <logical-interface>—Information about a single logical interface.

<physical-interface>—Information about a single physical interface.

<interface-information>

Usage

```
<rpc-reply>
  <interface-information>
    <physical-interface>...</physical-interface>
    <logical-interface>...</logical-interface>
    <controller>...</controller>
    <interface-set>...</interface-set>
  </interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <controller>—No documentation is available yet.

<interface-set>—No documentation is available yet.

<logical-interface>—Information about a single logical interface.

<physical-interface>—Information about a single physical interface.

<interface-location-name-information>

Usage

```
<rpc-reply>
  <interface-location-name-information>
    <location-name-information>...</location-name-information>
  </interface-location-name-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <location-name-information>—No documentation is available yet.

<interface-location-slot-information>

Usage

```
<rpc-reply>
  <interface-location-slot-information>
    <location-slot-information>...</location-slot-information>
  </interface-location-slot-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <location-slot-information>—No documentation is available yet.

<interface-policer-information>

Usage
```
<rpc-reply>
  <interface-policer-information>
    <physical-interface>...</physical-interface>
    <logical-interface>...</logical-interface>
  </interface-policer-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <logical-interface>—Information about a single logical interface.

<physical-interface>—Information about a single physical interface.

<interface-set>

Usage
```
<interface-information>
  <interface-set>
    <name>name</name>
    <interface-set-index>interface-set-index</interface-set-index>
    <interface-set-member-list>...</interface-set-member-list>
    <traffic-statistics>...</traffic-statistics>
    <interface-set-queue-information>...</interface-set-queue-information>
  </interface-set>
</interface-information>
```

Description No documentation is available yet.

Contents <interface-set-index>—No documentation is available yet.

<interface-set-member-list>—No documentation is available yet.

<interface-set-queue-information>—No documentation is available yet.

<name>—Name of this item.

<traffic-statistics>—Number and rate of bytes and packets received and transmitted on the physical interface.

<interface-set-member-list>

Usage
```
<interface-set>
  <interface-set-member-list>
    <interface-set-member>interface-set-member</interface-set-member>
  </interface-set-member-list>
</interface-set>
```

Description No documentation is available yet.

Contents <interface-set-member>—No documentation is available yet.

<interface-set-queue-information>

Usage
```
<interface-set>
  <interface-set-queue-information>
    <queue-counters>...</queue-counters>
    <ingress-queue-counters>...</ingress-queue-counters>
  </interface-set-queue-information>
</interface-set>
```

Description No documentation is available yet.

Contents <ingress-queue-counters>—Ingress queue counter statistics.

<queue-counters>—Queue counter statistics.

<interface-tx-queue>

Usage
```
<ct3-information | cds1-information | nxds0-information>
  <interface-tx-queue>
    <name>name</name>
    <bandwidth>bandwidth</bandwidth>
    <wrr>wrr</wrr>
    <output-packets>output-packets</output-packets>
    <output-bytes>output-bytes</output-bytes>
    <output-drops>output-drops</output-drops>
    <output-drops-bytes>output-drops-bytes</output-drops-bytes>
    <output-errors>output-errors</output-errors>
  </interface-tx-queue>
</ct3-information | cds1-information | nxds0-information>
```

Description No documentation is available yet.

Contents <bandwidth>—No documentation is available yet.

<name>—Name of this item.

<output-bytes>—No documentation is available yet.

<output-drops>—Number of packets dropped by the output queue of the I/O Manager ASIC. If the interface is saturated, this number increments once for every packet that is dropped by the ASIC's RED mechanism.

<output-drops-bytes>—No documentation is available yet.

<output-errors>—Sum of the outgoing frame aborts and FCS errors.

<output-packets>—No documentation is available yet.

<wrr>—No documentation is available yet.

<interval>

Usage
```
<interval-information>
  <interval>
    <range>range</range>
    <media-alarm>...</media-alarm>
  </interval>
</interval-information>
```

Description Statistics for a single interval.

Contents <media-alarm>—No documentation is available yet.

<range>—Time range for this interval.

<interval-information>

Usage
```
<physical-interface>
  <interval-information>
    <interval>...</interval>
  </interval-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <interval>—Statistics for a single interval.

<ipv6-transit-statistics>

Usage
```
<traffic-statistics | transit-traffic-statistics>
  <ipv6-transit-statistics>
    <input-bytes>input-bytes</input-bytes>
    <output-bytes>output-bytes</output-bytes>
    <input-packets>input-packets</input-packets>
    <output-packets>output-packets</output-packets>
  </ipv6-transit-statistics>
</traffic-statistics | transit-traffic-statistics>
```

Description No documentation is available yet.

Contents <input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<irb-domain>

Usage

```
<logical-interface>
  <irb-domain>
    <irb-routing-instance>irb-routing-instance</irb-routing-instance>
    <irb-bridge>irb-bridge</irb-bridge>
  </irb-domain>
</logical-interface>
```

Description No documentation is available yet.

Contents <irb-bridge>—Name of the Bridging Domain.

<irb-routing-instance>—Name of the Routing Instance.

<jswitch-port>

Usage

```
<jswitch-port-information>
  <jswitch-port>
    <physical-interface-name>physical-interface-name</physical-interface-name>
    <port>port</port>
    <admin-state>admin-state</admin-state>
    <physical-link>physical-link</physical-link>
    <link-speed>link-speed</link-speed>
    <auto-negotiation>auto-negotiation</auto-negotiation>
    <link-duplexity>link-duplexity</link-duplexity>
    <port-mtu>port-mtu</port-mtu>
    <ethernet-mac-statistics>...</ethernet-mac-statistics>
    <ethernet-autonegotiation>...</ethernet-autonegotiation>
    <vlan-id>vlan-id</vlan-id>
    <default-vlan-id>default-vlan-id</default-vlan-id>
    <cascade-port>cascade-port</cascade-port>
  </jswitch-port>
</jswitch-port-information>
```

Description No documentation is available yet.

Contents <admin-state>—No documentation is available yet.

<auto-negotiation>—No documentation is available yet.

<cascade-port>—No documentation is available yet.

<default-vlan-id>—No documentation is available yet.

<ethernet-autonegotiation>—Ethernet autonegotiation information.

<ethernet-mac-statistics>—Ethernet MAC statistics.

<link-duplexity>—No documentation is available yet.

<link-speed>—No documentation is available yet.

<physical-interface-name>—No documentation is available yet.

<physical-link>—No documentation is available yet.

<port>—No documentation is available yet.

<port-mtu>—No documentation is available yet.

<vlan-id>—No documentation is available yet.

<jswitch-port-information>

Usage
```
<rpc-reply>
  <jswitch-port-information>
    <jswitch-port>...</jswitch-port>
  </jswitch-port-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <jswitch-port>—No documentation is available yet.

<keepalive-config>

Usage
```
<physical-interface | logical-interface>
  <keepalive-config>
    <keepalive-interval>keepalive-interval</keepalive-interval>
    <keepalive-up-count>keepalive-up-count</keepalive-up-count>
    <keepalive-down-count>keepalive-down-count</keepalive-down-count>
  </keepalive-config>
</physical-interface | logical-interface>
```

Description Configured keepalive settings on this interface.

Contents <keepalive-down-count>—No documentation is available yet.

<keepalive-interval>—No documentation is available yet.

<keepalive-up-count>—No documentation is available yet.

<keepalive-statistics>

Usage
```
<physical-interface | logical-interface>
  <keepalive-statistics>
    <keepalive-lmi-descriptor>keepalive-lmi-descriptor</keepalive-lmi-descriptor>
    <keepalive-input-count>keepalive-input-count</keepalive-input-count>
    <keepalive-input-time>keepalive-input-time</keepalive-input-time>
    <keepalive-output-count>keepalive-output-count</keepalive-output-count>
    <keepalive-output-time>keepalive-output-time</keepalive-output-time>
  </keepalive-statistics>
</physical-interface | logical-interface>
```

Description Keepalive statistics for this interface.

Contents <keepalive-input-count>—No documentation is available yet.

<keepalive-input-time>—No documentation is available yet.

<keepalive-lmi-descriptor>—No documentation is available yet.

<keepalive-output-count>—No documentation is available yet.

<keepalive-output-time>—No documentation is available yet.

<l2circuit-info>

Usage

```
<logical-interface>
  <l2circuit-info>
    <cell-bundle-size>cell-bundle-size</cell-bundle-size>
    <cell-bundle-timeout>cell-bundle-timeout</cell-bundle-timeout>
    <cell-timeout-count>cell-timeout-count</cell-timeout-count>
    <out-of-sequence>out-of-sequence</out-of-sequence>
  </l2circuit-info>
</logical-interface>
```

Description No documentation is available yet.

Contents <cell-bundle-size>—No documentation is available yet.

<cell-bundle-timeout>—No documentation is available yet.

<cell-timeout-count>—No documentation is available yet.

<out-of-sequence>—No documentation is available yet.

<lag-bundle>

Usage

```
<lag-traffic-statistics>
  <lag-bundle>
    <input-packets>input-packets</input-packets>
    <input-pps>input-pps</input-pps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-packets>output-packets</output-packets>
    <output-pps>output-pps</output-pps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </lag-bundle>
</lag-traffic-statistics>
```

Description No documentation is available yet.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<output-pps>—No documentation is available yet.

<lag-lacp-info>

Usage
```
<lag-traffic-statistics>
  <lag-lacp-info>
    <name>name</name>
    <lacp-role>lacp-role</lacp-role>
    <lacp-sys-priority>lacp-sys-priority</lacp-sys-priority>
    <lacp-system-id>lacp-system-id</lacp-system-id>
    <lacp-port-priority>lacp-port-priority</lacp-port-priority>
    <lacp-port-number>lacp-port-number</lacp-port-number>
    <lacp-port-key>lacp-port-key</lacp-port-key>
  </lag-lacp-info>
</lag-traffic-statistics>
```

Description LACP information.

Contents <lacp-port-key>—Operational key of the port.

<lacp-port-number>—Port number.

<lacp-port-priority>—Priority of the port.

<lacp-role>—Whether it is an actor or partner.

<lacp-sys-priority>—System priority.

<lacp-system-id>—LACP system identifier.

<name>—Name of this item.

<lag-lacp-protocol>

Usage
```
<lag-traffic-statistics>
  <lag-lacp-protocol>
    <name>name</name>
    <lacp-receive-state>lacp-receive-state</lacp-receive-state>
    <lacp-transmit-state>lacp-transmit-state</lacp-transmit-state>
    <lacp-mux-state>lacp-mux-state</lacp-mux-state>
  </lag-lacp-protocol>
</lag-traffic-statistics>
```

Description LACP protocol information.

Contents <lacp-mux-state>—State of the mux lacp machine.

<lacp-receive-state>—State of the receive lacp machine.

<lacp-transmit-state>—State of the transmit lacp machine.

<name>—Name of this item.

<lag-lacp-state>

Usage

```
<lag-traffic-statistics>
  <lag-lacp-state>
    <name>name</name>
    <lacp-role>lacp-role</lacp-role>
    <lacp-expired>lacp-expired</lacp-expired>
    <lacp-defaulted>lacp-defaulted</lacp-defaulted>
    <lacp-distributing>lacp-distributing</lacp-distributing>
    <lacp-collecting>lacp-collecting</lacp-collecting>
    <lacp-synchronization>lacp-synchronization</lacp-synchronization>
    <lacp-aggregation>lacp-aggregation</lacp-aggregation>
    <lacp-timeout>lacp-timeout</lacp-timeout>
    <lacp-activity>lacp-activity</lacp-activity>
  </lag-lacp-state>
</lag-traffic-statistics>
```

Description LACP protocol state information.

Contents <lacp-activity>—Configured as either active or passive.

<lacp-aggregation>—Actor view of partner information is in sync.

<lacp-collecting>—State of the mux lacp machine is COLLECTING?.

<lacp-defaulted>—State of the receive lacp machine is DEFAULTED?.

<lacp-distributing>—State of the mux lacp machine is DISTRIBUTING?.

<lacp-expired>—State of the receive lacp machine is EXPIRED?.

<lacp-role>—Whether it is an actor or partner.

<lacp-synchronization>—Actor view of partner information is in sync.

<lacp-timeout>—Configured as either fast or slow periodic.

<name>—Name of this item.

<lag-lacp-statistics>

Usage

```
<lag-traffic-statistics>
  <lag-lacp-statistics>
    <name>name</name>
    <lacp-rx-packets>lacp-rx-packets</lacp-rx-packets>
    <lacp-tx-packets>lacp-tx-packets</lacp-tx-packets>
    <unknown-rx-packets>unknown-rx-packets</unknown-rx-packets>
    <illegal-rx-packets>illegal-rx-packets</illegal-rx-packets>
  </lag-lacp-statistics>
</lag-traffic-statistics>
```

Description No documentation is available yet.

Contents <illegal-rx-packets>—Number of ill formed packets received.

<lacp-rx-packets>—Number of LACP packets received.

<lacp-tx-packets>—Number of LACP packets transmitted.

<name>—Name of this item.

<unknown-rx-packets>—Number of unknown type packets received.

<lag-link>

Usage

```
<lag-traffic-statistics>
  <lag-link>
    <name>name</name>
    <down/>
    <input-packets>input-packets</input-packets>
    <input-pps>input-pps</input-pps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-packets>output-packets</output-packets>
    <output-pps>output-pps</output-pps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </lag-link>
</lag-traffic-statistics>
```

Description No documentation is available yet.

Contents <down>—Link is down.

<input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<name>—Name of this item.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<output-pps>—No documentation is available yet.

<lag-marker>

Usage

```
<lag-traffic-statistics>
  <lag-marker>
    <name>name</name>
    <marker-rx-packets>marker-rx-packets</marker-rx-packets>
    <marker-response-tx-packets>marker-response-tx-packets
                </marker-response-tx-packets>
    <unknown-rx-packets>unknown-rx-packets</unknown-rx-packets>
    <illegal-rx-packets>illegal-rx-packets</illegal-rx-packets>
  </lag-marker>
</lag-traffic-statistics>
```

Description No documentation is available yet.

Contents <illegal-rx-packets>—Number of ill formed packets received.

<marker-response-tx-packets>—No documentation is available yet.

<marker-rx-packets>—No documentation is available yet.

<name>—Name of this item.

<unknown-rx-packets>—Number of unknown type packets received.

<lag-traffic-statistics>

Usage

```
<logical-interface>
  <lag-traffic-statistics>
    <lag-bundle>...</lag-bundle>
    <lag-link>...</lag-link>
    <lag-marker>...</lag-marker>
    <lag-lacp-statistics>...</lag-lacp-statistics>
    <lag-lacp-info>...</lag-lacp-info>
    <lag-lacp-state>...</lag-lacp-state>
    <lag-lacp-protocol>...</lag-lacp-protocol>
  </lag-traffic-statistics>
</logical-interface>
```

Description No documentation is available yet.

Contents <lag-bundle>—No documentation is available yet.

<lag-lacp-info>—LACP information.

<lag-lacp-protocol>—LACP protocol information.

<lag-lacp-state>—LACP protocol state information.

<lag-lacp-statistics>—No documentation is available yet.

<lag-link>—No documentation is available yet.

<lag-marker>—No documentation is available yet.

<layer2-input-policer-information>

Usage

```
<logical-interface>
  <layer2-input-policer-information>
    <layer2-input-policer>layer2-input-policer</layer2-input-policer>
  </layer2-input-policer-information>
</logical-interface>
```

Description Information about Layer 2 input policer for interface.

Contents <layer2-input-policer>—Name of the Layer 2 input policer.

<layer2-input-policer-statistics>

Usage

```
<logical-interface>
  <layer2-input-policer-statistics>
    <policer-low-frames>policer-low-frames</policer-low-frames>
    <policer-medium-low-frames>policer-medium-low-frames
                </policer-medium-low-frames>
    <policer-medium-high-frames>policer-medium-high-frames
                </policer-medium-high-frames>
    <policer-high-frames>policer-high-frames</policer-high-frames>
    <policer-dropped-frames>policer-dropped-frames</policer-dropped-frames>
  </layer2-input-policer-statistics>
</logical-interface>
```

Description Layer 2 input policer statistics for interface.

Contents <policer-dropped-frames>—Number of dropped frames.

<policer-high-frames>—Number of high-loss frames.

<policer-low-frames>—Number of low-loss frames.

<policer-medium-high-frames>—Number of medium-high-loss frames.

<policer-medium-low-frames>—Number of medium-low-loss frames.

<layer2-output-policer-information>

Usage

```
<logical-interface>
  <layer2-output-policer-information>
    <layer2-output-policer>layer2-output-policer</layer2-output-policer>
  </layer2-output-policer-information>
</logical-interface>
```

Description Information about Layer 2 output policer for interface.

Contents <layer2-output-policer>—Name of the Layer 2 output policer.

<layer2-output-policer-statistics>

Usage

```
<logical-interface>
  <layer2-output-policer-statistics>
    <policer-low-frames>policer-low-frames</policer-low-frames>
    <policer-medium-low-frames>policer-medium-low-frames
                </policer-medium-low-frames>
    <policer-medium-high-frames>policer-medium-high-frames
                </policer-medium-high-frames>
    <policer-high-frames>policer-high-frames</policer-high-frames>
    <policer-dropped-frames>policer-dropped-frames</policer-dropped-frames>
  </layer2-output-policer-statistics>
</logical-interface>
```

Description Layer 2 output policer statistics for interface.

Contents <policer-dropped-frames>—Number of dropped frames.

<policer-high-frames>—Number of high-loss frames.

<policer-low-frames>—Number of low-loss frames.

<policer-medium-high-frames>—Number of medium-high-loss frames.

<policer-medium-low-frames>—Number of medium-low-loss frames.

<lfi>

Usage

```
<bundle-detail>
  <lfi>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </lfi>
</bundle-detail>
```

Description LFI frame statistics for multilink bundles and classes.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<line-protocol>

Usage

```
<serial-information>
  <line-protocol>
    <line-protocol-mode>line-protocol-mode</line-protocol-mode>
  </line-protocol>
</serial-information>
```

Description No documentation is available yet.

Contents <line-protocol-mode>—No documentation is available yet.

<linear-red-drop-profile>

Usage

```
<atm-cos-queue-parameters>
  <linear-red-drop-profile>
    <queue-depth>queue-depth</queue-depth>
    <low-red>low-red</low-red>
    <high-red>high-red</high-red>
    <max-low-red>max-low-red</max-low-red>
    <max-high-red>max-high-red</max-high-red>
  </linear-red-drop-profile>
</atm-cos-queue-parameters>
```

Description No documentation is available yet.

Contents <high-red>—Fill level percentage when linear RED is applied for high PLP.

<low-red>—Fill level percentage when linear RED is applied for low PLP.

<max-high-red>—Fill level percentage with 100% packet drop for high PLP.

<max-low-red>—Fill level percentage with 100% packet drop for low PLP.

<queue-depth>—Maximum queue depth.

<link>

Usage

```
<multilink-traffic-statistics>
  <link>
    <name>name</name>
    <down/>
    <link-uptime>link-uptime</link-uptime>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </link>
</multilink-traffic-statistics>
```

Description No documentation is available yet.

Contents <down>—Link is down.

<input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<link-uptime>—Total uptime for the member link.

<name>—Name of this item.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<link-entry>

Usage

```
<links>
  <link-entry>
    <link-id>link-id</link-id>
    <active-alarms>...</active-alarms>
    <active-defects>...</active-defects>
    <sonet-errors>...</sonet-errors>
    <sonet-physical-information>...</sonet-physical-information>
    <sonet-section-information>...</sonet-section-information>
    <sonet-line-information>...</sonet-line-information>
    <sonet-path-information>...</sonet-path-information>
    <sonet-payload-pointer-information>...</sonet-payload-pointer-information>
    <sonet-payload-pointer-curptr>sonet-payload-pointer-curptr
                </sonet-payload-pointer-curptr>
    <sonet-payload-pointer-ptrinc-count>sonet-payload-pointer-ptrinc-count
                </sonet-payload-pointer-ptrinc-count>
    <sonet-payload-pointer-ptrdec-count>sonet-payload-pointer-ptrdec-count
                </sonet-payload-pointer-ptrdec-count>
    <sonet-payload-pointer-newptr-ndf-count>sonet-payload-pointer-newptr-ndf-count
                </sonet-payload-pointer-newptr-ndf-count>
    <sonet-vt-information>...</sonet-vt-information>
    <sonet-rx-overhead>sonet-rx-overhead</sonet-rx-overhead>
    <sonet-tx-overhead>sonet-tx-overhead</sonet-tx-overhead>
    <sonet-rx-path-trace>sonet-rx-path-trace</sonet-rx-path-trace>
    <sonet-tx-path-trace>sonet-tx-path-trace</sonet-tx-path-trace>
    <optics-diagnostics>...</optics-diagnostics>
  </link-entry>
</links>
```

Description SONET/SDH link information.

Contents

<active-alarms>—Media-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

<active-defects>—Media-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

<link-id>—Link id for aggregated SONET/SDH interface.

<optics-diagnostics>—Optics diagnostics.

<sonet-errors>—No documentation is available yet.

<sonet-line-information>—No documentation is available yet.

<sonet-path-information>—No documentation is available yet.

<sonet-payload-pointer-curptr>—Value of the SONET/SDH payload pointer, derived

from the H1 and H2 overhead bytes.

<sonet-payload-pointer-information>—No documentation is available yet.

<sonet-payload-pointer-newptr-ndf-count>—Number of times a new payload pointer was created with the New Data Found flag set.

<sonet-payload-pointer-ptrdec-count>—Number of times the value of the SONET/SDH payload pointer had negative justification.

<sonet-payload-pointer-ptrinc-count>—Number of times the value of the SONET/SDH payload pointer had positive justification.

<sonet-physical-information>—No documentation is available yet.

<sonet-rx-overhead>—No documentation is available yet.

<sonet-rx-path-trace>—Received SONET path trace.

<sonet-section-information>—No documentation is available yet.

<sonet-tx-overhead>—No documentation is available yet.

<sonet-tx-path-trace>—Transmitted SONET path trace.

<sonet-vt-information>—No documentation is available yet.

<links>

Usage

```
<physical-interface>
  <links>
    <link-entry>...</link-entry>
  </links>
</physical-interface>
```

Description Aggregated SONET/SDH link information.

Contents <link-entry>—SONET/SDH link information.

<lmi-dce-config>

Usage

```
<physical-interface>
  <lmi-dce-config>
    <lmi-type>lmi-type</lmi-type>
    <lmi-n392dce>lmi-n392dce</lmi-n392dce>
    <lmi-n393dce>lmi-n393dce</lmi-n393dce>
    <lmi-t392dce>lmi-t392dce</lmi-t392dce>
  </lmi-dce-config>
</physical-interface>
```

Description Configured LMI DCE setting on this interface.

Contents <lmi-n392dce>—No documentation is available yet.

<lmi-n393dce>—No documentation is available yet.

<lmi-t392dce>—No documentation is available yet.

<lmi-type>—No documentation is available yet.

<lmi-dte-config>

Usage

```
<physical-interface>
  <lmi-dte-config>
    <lmi-type>lmi-type</lmi-type>
    <lmi-n391dte>lmi-n391dte</lmi-n391dte>
    <lmi-n392dte>lmi-n392dte</lmi-n392dte>
    <lmi-n393dte>lmi-n393dte</lmi-n393dte>
    <lmi-t391dte>lmi-t391dte</lmi-t391dte>
  </lmi-dte-config>
</physical-interface>
```

Description Configured LMI DTE setting on this interface.

Contents <lmi-n391dte>—No documentation is available yet.

<lmi-n392dte>—No documentation is available yet.

<lmi-n393dte>—No documentation is available yet.

<lmi-t391dte>—No documentation is available yet.

<lmi-type>—No documentation is available yet.

<lmi-statistics>

Usage

```
<physical-interface>
  <lmi-statistics>
    <lmi-statistics-dte-descriptor>lmi-statistics-dte-descriptor
                </lmi-statistics-dte-descriptor>
    <lmi-enquiries-sent>lmi-enquiries-sent</lmi-enquiries-sent>
    <lmi-full-enquiries-sent>lmi-full-enquiries-sent</lmi-full-enquiries-sent>
    <lmi-enquiry-responses-received>lmi-enquiry-responses-received
                </lmi-enquiry-responses-received>
    <lmi-full-enquiry-responses-received>lmi-full-enquiry-responses-received
                </lmi-full-enquiry-responses-received>
    <lmi-statistics-dce-descriptor>lmi-statistics-dce-descriptor
                </lmi-statistics-dce-descriptor>
    <lmi-enquiries-received>lmi-enquiries-received</lmi-enquiries-received>
    <lmi-full-enquiries-received>lmi-full-enquiries-received
                </lmi-full-enquiries-received>
    <lmi-enquiry-responses-sent>lmi-enquiry-responses-sent
                </lmi-enquiry-responses-sent>
    <lmi-full-enquiry-responses-sent>lmi-full-enquiry-responses-sent
                </lmi-full-enquiry-responses-sent>
    <lmi-statistics-common-descriptor>lmi-statistics-common-descriptor
                </lmi-statistics-common-descriptor>
    <lmi-unknown-messages-received>lmi-unknown-messages-received
                </lmi-unknown-messages-received>
    <lmi-asynchronous-updates-received>lmi-asynchronous-updates-received
                </lmi-asynchronous-updates-received>
    <lmi-out-of-sequence>lmi-out-of-sequence</lmi-out-of-sequence>
    <lmi-keepalive-responses-timeout>lmi-keepalive-responses-timeout
                </lmi-keepalive-responses-timeout>
  </lmi-statistics>
</physical-interface>
```

Description LMI statistics for an interface.

Contents <lmi-asynchronous-updates-received>—Number of ifstate change updates received.

<lmi-enquiries-received>—Number of enquiry packets received.

<lmi-enquiries-sent>—Number of enquiry packets sent.

<lmi-enquiry-responses-received>—Number of enquiry response packets received.

<lmi-enquiry-responses-sent>—Number of enquiry response packets sent.

<lmi-full-enquiries-received>—Number of full enquiry packets received.

<lmi-full-enquiries-sent>—Number of full enquiry packets sent.

<lmi-full-enquiry-responses-received>—Number of full enquiry packets received.

<lmi-full-enquiry-responses-sent>—Number of full enquiry response packets sent.

<lmi-keepalive-responses-timeout>—Number of times, the timer for keepalive packets expired.

<lmi-out-of-sequence>—Number of packets received in unexpected sequence.

<lmi-statistics-common-descriptor>—Statistics common to DTE and DCE.

<lmi-statistics-dce-descriptor>—DCE interface statistics.

<lmi-statistics-dte-descriptor>—DTE interface statistics.

<lmi-unknown-messages-received>—Number of packets received that do not contain valid messages.

<local-info>

Usage

```
<ethernet-autonegotiation | physical-interface>
  <local-info>
    <local-flow-control>local-flow-control</local-flow-control>
    <local-remote-fault>local-remote-fault</local-remote-fault>
  </local-info>
</ethernet-autonegotiation | physical-interface>
```

Description Auto-negotiation status of local partner.

Contents <local-flow-control>—Local interface flow control type.

<local-remote-fault>—Local interface remote fault type.

<local-traffic-statistics>

Usage

```
<logical-interface>
  <local-traffic-statistics>
    <input-bytes>input-bytes</input-bytes>
    <output-bytes>output-bytes</output-bytes>
    <input-bps>input-bps</input-bps>
    <output-bps>output-bps</output-bps>
    <input-packets>input-packets</input-packets>
    <output-packets>output-packets</output-packets>
    <input-pps>input-pps</input-pps>
    <output-pps>output-pps</output-pps>
  </local-traffic-statistics>
</logical-interface>
```

Description Statistics for traffic received from and transmitted to the Routing Engine. When a burst of traffic is received, the value in the output packet rate field might briefly exceed the peak cell rate. It takes a while (generally less than 1 second) for this counter to stabilize.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<output-pps>—No documentation is available yet.

<location-name-information>

Usage

```
<interface-location-name-information>
  <location-name-information>
    <interface-name>interface-name</interface-name>
    <fpc-number>fpc-number</fpc-number>
    <lcc-number>lcc-number</lcc-number>
  </location-name-information>
</interface-location-name-information>
```

Description No documentation is available yet.

Contents <fpc-number>—FPC number.

<interface-name>—Interface name.

<lcc-number>—LCC Chassis number.

<location-slot-information>

Usage

```
<interface-location-slot-information>
  <location-slot-information>
    <global-fpc-number>global-fpc-number</global-fpc-number>
  </location-slot-information>
</interface-location-slot-information>
```

Description No documentation is available yet.

Contents <global-fpc-number>—Global FPC number.

<logical-interface>

Usage <physical-interface | interface-information | interface-filter-information | interface-policer-information>

```
<logical-interface>
  <name>name</name>
  <admin-status>admin-status</admin-status>
  <oper-status>oper-status</oper-status>
  <vrfname>vrfname</vrfname>
  <local-index>local-index</local-index>
  <hardware-token>hardware-token</hardware-token>
  <snmp-index>snmp-index</snmp-index>
  <generation>generation</generation>
  <description>description</description>
  <if-config-flags>...</if-config-flags>
  <multilink-flapped>multilink-flapped</multilink-flapped>
  <link-address>link-address</link-address>
  <encapsulation>encapsulation</encapsulation>
  <demux-table-type>demux-table-type</demux-table-type>
  <copy-tos-to-outer-ip-header>copy-tos-to-outer-ip-header
        </copy-tos-to-outer-ip-header>
  <redundant-logical-interface-name>redundant-logical-interface-name
        </redundant-logical-interface-name>
  <layer2-input-policer-information>...</layer2-input-policer-information>
  <layer2-output-policer-information>...</layer2-output-policer-information>
  <pppoe-information>...</pppoe-information>
  <demux-interface>...</demux-interface>
  <demux-information>...</demux-information>
  <dialer-time-to-disconnect>dialer-time-to-disconnect
        </dialer-time-to-disconnect>
  <dialer-information>...</dialer-information>
  <shared-interface-information>...</shared-interface-information>
  <logical-interface-mac>logical-interface-mac</logical-interface-mac>
  <mac-database>...</mac-database>
  <logical-interface-bandwidth>logical-interface-bandwidth
        </logical-interface-bandwidth>
  <queue-counters>...</queue-counters>
  <ingress-queue-counters>...</ingress-queue-counters>
  <multilink-bundle-link-information>...</multilink-bundle-link-information>
  <multilink-bundle-options>...</multilink-bundle-options>
  <multilink-bundle-errors>...</multilink-bundle-errors>
  <multilink-traffic-statistics>...</multilink-traffic-statistics>
  <traffic-statistics>...</traffic-statistics>
  <ingress-traffic-statistics>...</ingress-traffic-statistics>
  <local-traffic-statistics>...</local-traffic-statistics>
  <transit-traffic-statistics>...</transit-traffic-statistics>
  <keepalive-config>...</keepalive-config>
  <keepalive-statistics>...</keepalive-statistics>
  <ppp-flags>...</ppp-flags>
  <lcp-state>lcp-state</lcp-state>
  <ncp-information>...</ncp-information>
  <chap-state>chap-state</chap-state>
  <pap-state>pap-state</pap-state>
  <virtual-circuit-information>...</virtual-circuit-information>
```

```
        <filter-information>...</filter-information>
        <policer-information>...</policer-information>
        <address-family>...</address-family>
        <bridge-iff-properties>...</bridge-iff-properties>
        <in-arp-statistics>...</in-arp-statistics>
        <l2circuit-info>...</l2circuit-info>
        <irb-domain>...</irb-domain>
        <media-information>...</media-information>
        <multilink-bundle-status>...</multilink-bundle-status>
        <multilink-bundle-class>...</multilink-bundle-class>
        <lag-traffic-statistics>...</lag-traffic-statistics>
        <layer2-input-policer-statistics>...</layer2-input-policer-statistics>
        <layer2-output-policer-statistics>...</layer2-output-policer-statistics>
        <mac-policer-information>...</mac-policer-information>
        <ppp-parameters>...</ppp-parameters>
      </logical-interface>
</physical-interface | interface-information | interface-filter-information |
interface-policer-information>
```

Description Information about a single logical interface.

Contents <address-family>—No documentation is available yet.

<admin-status>—Desired state of the interface.

<bridge-iff-properties>—Information about Ethernet-switching address family.

<chap-state>—State of the Challenge Handshake Authentication Protocol.

<copy-tos-to-outer-ip-header>—Flag that enables copying of the value in the ToS field of the IP packet's payload header to the delivery header in the generic routing encapsulation packet.

<demux-information>—Demux information.

<demux-interface>—No documentation is available yet.

<demux-table-type>—Demux table enabled on the logical interface.

<description>—Description of this interface.

<dialer-information>—Dialer information.

<dialer-time-to-disconnect>—Time for dialer to disconnect due to idle timeout.

<encapsulation>—Encapsulation on the logical interface.

<filter-information>—No documentation is available yet.

<generation>—Generation number used to distinguish between successive instances of this interface.

<hardware-token>—Hardware token for layer 3 ifl.

<if-config-flags>—No documentation is available yet.

<in-arp-statistics>—Container tag for ARP statistics.

<ingress-queue-counters>—Ingress queue counter statistics.

<ingress-traffic-statistics>—Number and rate of bytes and packets received in the ingress side at Packet Forwarding Engine.

<irb-domain>—No documentation is available yet.

<keepalive-config>—Configured keepalive settings on this interface.

<keepalive-statistics>—Keepalive statistics for this interface.

<l2circuit-info>—No documentation is available yet.

<lag-traffic-statistics>—No documentation is available yet.

<layer2-input-policer-information>—Information about Layer 2 input policer for interface.

<layer2-input-policer-statistics>—Layer 2 input policer statistics for interface.

<layer2-output-policer-information>—Information about Layer 2 output policer for interface.

<layer2-output-policer-statistics>—Layer 2 output policer statistics for interface.

<lcp-state>—State of the Line Control Protocol.

<link-address>—Link address on this logical interface.

<local-index>—Local kernel index for this interface.

<local-traffic-statistics>—Statistics for traffic received from and transmitted to the Routing Engine. When a burst of traffic is received, the value in the output packet rate field might briefly exceed the peak cell rate. It takes a while (generally less than 1 second) for this counter to stabilize.

<logical-interface-bandwidth>—Bandwidth of this logical interface.

<logical-interface-mac>—MAC on the logical interface.

<mac-database>—No documentation is available yet.

<mac-policer-information>—No documentation is available yet.

<media-information>—Information about media alarms.

<multilink-bundle-class>—Multilink class status.

<multilink-bundle-errors>—Multilink bundle errors.

<multilink-bundle-link-information>—No documentation is available yet.

<multilink-bundle-options>—No documentation is available yet.

<multilink-bundle-status>—Multilink bundle status.

<multilink-flapped>—Time when the interface last flapped.

<multilink-traffic-statistics>—No documentation is available yet.

<name>—Name of this item.

<ncp-information>—Network Control Protocol information.

<oper-status>—Current operational state of the interface.

<pap-state>—State of the Password Authentication Protocol.

<policer-information>—Interface policer information.

<ppp-flags>—Additional flags applicable to PPP encapsulation.

<ppp-parameters>—PPP parameters.

<pppoe-information>—PPPoE information.

<queue-counters>—Queue counter statistics.

<redundant-logical-interface-name>—Name of the redundant logical interface.

<shared-interface-information>—Shared interface information.

<snmp-index>—SNMP ifIndex for this interface.

<traffic-statistics>—Number and rate of bytes and packets received and transmitted on the physical interface.

<transit-traffic-statistics>—Statistics for traffic passing through the router. When a burst of traffic is received, the value in the output packet rate field might briefly exceed the peak cell rate. The counter usually stabilizes in 1 second or less.

<virtual-circuit-information>—Operational information and statistics for a virtual circuit.

<vrfname>—Routing instance name.

<lsi-traffic-statistics>

Usage

```
<physical-interface>
  <lsi-traffic-statistics>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <input-packets>input-packets</input-packets>
    <input-pps>input-pps</input-pps>
  </lsi-traffic-statistics>
</physical-interface>
```

Description Information about label-switched bytes and packets received on the physical interface.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<mac-database>

Usage

```
<physical-interface | logical-interface>
  <mac-database>
    <mac-record>...</mac-record>
    <number-of-mac-record>number-of-mac-record</number-of-mac-record>
  </mac-database>
</physical-interface | logical-interface>
```

Description No documentation is available yet.

Contents <mac-record>—No documentation is available yet.

<number-of-mac-record>—No documentation is available yet.

<mac-policer-information>

Usage

```
<logical-interface>
  <mac-policer-information>
    <mac-address>mac-address</mac-address>
    <mac-entry-type>mac-entry-type</mac-entry-type>
    <receive-bytes>receive-bytes</receive-bytes>
    <transmit-bytes>transmit-bytes</transmit-bytes>
    <receive-frames>receive-frames</receive-frames>
    <transmit-frames>transmit-frames</transmit-frames>
    <ether-policer-list>...</ether-policer-list>
  </mac-policer-information>
</logical-interface>
```

Description No documentation is available yet.

Contents <ether-policer-list>—No documentation is available yet.

<mac-address>—No documentation is available yet.

<mac-entry-type>—No documentation is available yet.

<receive-bytes>—No documentation is available yet.

<receive-frames>—No documentation is available yet.

<transmit-bytes>—No documentation is available yet.

<transmit-frames>—No documentation is available yet.

<mac-record>

Usage

```
<mac-database>
  <mac-record>
    <mac-address>mac-address</mac-address>
    <receive-frames>receive-frames</receive-frames>
    <receive-bytes>receive-bytes</receive-bytes>
    <transmit-frames>transmit-frames</transmit-frames>
    <transmit-bytes>transmit-bytes</transmit-bytes>
  </mac-record>
</mac-database>
```

Description No documentation is available yet.

Contents <mac-address>—No documentation is available yet.

<receive-bytes>—No documentation is available yet.

<receive-frames>—No documentation is available yet.

<transmit-bytes>—No documentation is available yet.

<transmit-frames>—No documentation is available yet.

<mac-validate-statistics>

Usage

```
<address-family>
  <mac-validate-statistics>
    <mac-validate-packets>mac-validate-packets</mac-validate-packets>
    <mac-validate-bytes>mac-validate-bytes</mac-validate-bytes>
  </mac-validate-statistics>
</address-family>
```

Description SRC MAC validate statistics.

Contents <mac-validate-bytes>—Number of bytes that have failed the mac-validate check.

<mac-validate-packets>—Number of packets that have failed the mac-validate check.

<media-alarm>

Usage

```
<sonet-errors | sonet-physical-information | sonet-section-information |
sonet-line-information | sonet-path-information | sonet-vt-information | otn-errors |
media-information | plcp-defects | atm-defects | otn-oc-information | otn-otu-information
| otn-odu-information | ima-group-information | ima-link-information | interval>
  <media-alarm>
    <media-alarm-name>media-alarm-name</media-alarm-name>
    <media-alarm-seconds>media-alarm-seconds</media-alarm-seconds>
    <media-alarm-count>media-alarm-count</media-alarm-count>
    <media-alarm-state>media-alarm-state</media-alarm-state>
    <ce-counter-name>ce-counter-name</ce-counter-name>
    <ce-counter-packets>ce-counter-packets</ce-counter-packets>
    <ce-counter-bytes>ce-counter-bytes</ce-counter-bytes>
    <ce-counter-count>ce-counter-count</ce-counter-count>
  </media-alarm>
</sonet-errors | sonet-physical-information | sonet-section-information |
sonet-line-information | sonet-path-information | sonet-vt-information | otn-errors |
media-information | plcp-defects | atm-defects | otn-oc-information | otn-otu-information
| otn-odu-information | ima-group-information | ima-link-information | interval>
```

Description No documentation is available yet.

Contents <ce-counter-bytes>—Circuit Emulation number of bytes.

<ce-counter-count>—Circuit Emulation number of event occurrences.

<ce-counter-name>—Circuit Emulation counter information.

<ce-counter-packets>—Circuit Emulation number of packets.

<media-alarm-count>—No documentation is available yet.

<media-alarm-name>—No documentation is available yet.

<media-alarm-seconds>—No documentation is available yet.

<media-alarm-state>—No documentation is available yet.

<media-information>

Usage

```
<physical-interface | logical-interface>
  <media-information>
    <media-alarm>...</media-alarm>
    <ds1-timeslots>ds1-timeslots</ds1-timeslots>
    <ds1-line-encoding>ds1-line-encoding</ds1-line-encoding>
    <ds1-byte-encoding>ds1-byte-encoding</ds1-byte-encoding>
    <ds1-data-inversion>ds1-data-inversion</ds1-data-inversion>
    <ds1-buildout>ds1-buildout</ds1-buildout>
    <ds0-byte-encoding>ds0-byte-encoding</ds0-byte-encoding>
    <ds0-data-inversion>ds0-data-inversion</ds0-data-inversion>
    <idle-cycle-flag>idle-cycle-flag</idle-cycle-flag>
    <start-end-flag>start-end-flag</start-end-flag>
    <e3-data-inversion>e3-data-inversion</e3-data-inversion>
    <media-type>media-type</media-type>
  </media-information>
</physical-interface | logical-interface>
```

Description Information about media alarms.

Contents <ds0-byte-encoding>—No documentation is available yet.

<ds0-data-inversion>—No documentation is available yet.

<ds1-buildout>—Number of feet.

<ds1-byte-encoding>—No documentation is available yet.

<ds1-data-inversion>—No documentation is available yet.

<ds1-line-encoding>—No documentation is available yet.

<ds1-timeslots>—No documentation is available yet.

<e3-data-inversion>—No documentation is available yet.

<idle-cycle-flag>—No documentation is available yet.

<media-alarm>—No documentation is available yet.

<media-type>—Type of media this information is for.

<start-end-flag>—No documentation is available yet.

<media-state>

Usage

```
<media-state-information>
  <media-state>
    <media-state-name>media-state-name</media-state-name>
    <media-state-state>media-state-state</media-state-state>
  </media-state>
</media-state-information>
```

Description No documentation is available yet.

Contents <media-state-name>—Media state category.

<media-state-state>—Current state for this category.

<media-state-information>

Usage

```
<physical-interface>
  <media-state-information>
    <media-type>media-type</media-type>
    <media-state>...</media-state>
  </media-state-information>
</physical-interface>
```

Description Media-specific state information.

Contents <media-state>—No documentation is available yet.

<media-type>—Type of media this information is for.

<mlfr-uni-nni-bundle-options>

Usage

```
<physical-interface>
  <mlfr-uni-nni-bundle-options>
    <mlfr-uni-nni-device-type>mlfr-uni-nni-device-type</mlfr-uni-nni-device-type>
    <mlfr-uni-nni-mrru>mlfr-uni-nni-mrru</mlfr-uni-nni-mrru>
    <mlfr-uni-nni-bandwidth>mlfr-uni-nni-bandwidth</mlfr-uni-nni-bandwidth>
    <red-differential-delay>red-differential-delay</red-differential-delay>
    <red-differential-delay-action>red-differential-delay-action
                </red-differential-delay-action>
    <yellow-differential-delay>yellow-differential-delay
                </yellow-differential-delay>
    <lip-hello-timer>lip-hello-timer</lip-hello-timer>
    <lip-ack-timer>lip-ack-timer</lip-ack-timer>
    <lip-ack-retries>lip-ack-retries</lip-ack-retries>
    <bundle-class>bundle-class</bundle-class>
    <mlfr-uni-nni-drop-timeout>mlfr-uni-nni-drop-timeout
                </mlfr-uni-nni-drop-timeout>
    <mlfr-uni-nni-link-layer-overhead>mlfr-uni-nni-link-layer-overhead
                </mlfr-uni-nni-link-layer-overhead>
    <mlfr-uni-nni-lmi-type>mlfr-uni-nni-lmi-type</mlfr-uni-nni-lmi-type>
    <mlfr-uni-nni-fragment-threshold>mlfr-uni-nni-fragment-threshold
                </mlfr-uni-nni-fragment-threshold>
    <mlfr-uni-nni-minimum-links>mlfr-uni-nni-minimum-links
                </mlfr-uni-nni-minimum-links>
    <t391>t391</t391>
    <t392>t392</t392>
    <n391>n391</n391>
    <n392>n392</n392>
    <n393>n393</n393>
  </mlfr-uni-nni-bundle-options>
</physical-interface>
```

Description No documentation is available yet.

Contents

<bundle-class>—Type of bundle class: A, B or C.

<lip-ack-retries>—Maximum number of retransmissions for HELLO and LINK_ADD.

<lip-ack-timer>—How long to wait for a HELLO_ACK, ADD_LINK_ACK, or REMOVE_LINK_ACK.

<lip-hello-timer>—Timer for sending periodic hello messages to the remote endpoint.

<mlfr-uni-nni-bandwidth>—Bandwidth of this multilink Frame Relay UNI NNI bundle.

<mlfr-uni-nni-device-type>—LMI device type of this multilink Frame Relay UNI NNI bundle instance.

<mlfr-uni-nni-drop-timeout>—How long to wait for all fragments of a complete packet to arrive.

<mlfr-uni-nni-fragment-threshold>—Fragment size of this multilink Frame Relay UNI NNI bundle instance.

<mlfr-uni-nni-link-layer-overhead>—Multilink Frame Relay UNI NNI bundle link layer overhead.

<mlfr-uni-nni-lmi-type>—LMI type (ANSI or Q.933A) of this multilink Frame Relay UNI NNI bundle instance.

<mlfr-uni-nni-minimum-links>—Minimum number of links to sustain this multilink Frame Relay UNI NNI bundle instance.

<mlfr-uni-nni-mrru>—Maximum RRU size of this multilink Frame Relay UNI NNI bundle instance.

<n391>—Multilink Frame Relay UNI NNI full status polling counter.

<n392>—Multilink Frame Relay UNI NNI LMI error threshold.

<n393>—Multilink Frame Relay UNI NNI LMI monitored event count.

<red-differential-delay>—Maximum allowable differential delay of this multilink Frame Relay UNI NNI bundle instance.

<red-differential-delay-action>—Action to perform (remove link from bundle or disable transmit) when exceeding red limit.

<t391>—Multilink Frame Relay UNI NNI link integrity verify polling timer.

<t392>—Multilink Frame Relay UNI NNI polling verification timer.

<yellow-differential-delay>—Maximum allowable differential delay of this multilink Frame Relay UNI NNI bundle instance.

<mlfr-uni-nni-link>

Usage

```
<mlfr-uni-nni-traffic-statistics>
  <mlfr-uni-nni-link>
    <name>name</name>
    <down/>
    <link-uptime>link-uptime</link-uptime>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
    <lip-header-string>lip-header-string</lip-header-string>
    <current-differential-delay>current-differential-delay
                </current-differential-delay>
    <recent-high-differential-delay>recent-high-differential-delay
                </recent-high-differential-delay>
    <over-red-differential>over-red-differential</over-red-differential>
    <over-yellow-differential>over-yellow-differential</over-yellow-differential>
    <rcv-lip-addlink>rcv-lip-addlink</rcv-lip-addlink>
    <rcv-lip-link-ack>rcv-lip-link-ack</rcv-lip-link-ack>
    <rcv-lip-link-rej>rcv-lip-link-rej</rcv-lip-link-rej>
    <rcv-lip-hello>rcv-lip-hello</rcv-lip-hello>
    <rcv-lip-hello-ack>rcv-lip-hello-ack</rcv-lip-hello-ack>
    <rcv-lip-link-rem>rcv-lip-link-rem</rcv-lip-link-rem>
    <rcv-lip-rem-ack>rcv-lip-rem-ack</rcv-lip-rem-ack>
    <xmt-lip-addlink>xmt-lip-addlink</xmt-lip-addlink>
    <xmt-lip-link-ack>xmt-lip-link-ack</xmt-lip-link-ack>
    <xmt-lip-link-rej>xmt-lip-link-rej</xmt-lip-link-rej>
    <xmt-lip-hello>xmt-lip-hello</xmt-lip-hello>
    <xmt-lip-hello-ack>xmt-lip-hello-ack</xmt-lip-hello-ack>
    <xmt-lip-link-rem>xmt-lip-link-rem</xmt-lip-link-rem>
    <xmt-lip-rem-ack>xmt-lip-rem-ack</xmt-lip-rem-ack>
  </mlfr-uni-nni-link>
</mlfr-uni-nni-traffic-statistics>
```

Description No documentation is available yet.

Contents <current-differential-delay>—Current differential delay of this bundle link.

<down>—Link is down.

<input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<link-uptime>—Total uptime for the member link.

<lip-header-string>—Header string of the LIP display.

<name>—Name of this item.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<over-red-differential>—Number of times over red differential delay.

<over-yellow-differential>—Number of times over yellow differential delay.

<rcv-lip-addlink>—Number of LIP ADD_LINKs received.

<rcv-lip-hello>—Number of LIP HELLOs received.

<rcv-lip-hello-ack>—Number of LIP HELLO_ACKs received.

<rcv-lip-link-ack>—Number of LIP ADD_LINK_ACKs received.

<rcv-lip-link-rej>—Number of LIP ADD_LINK_REJs received.

<rcv-lip-link-rem>—Number of LIP LINK_REMOVEs received.

<rcv-lip-rem-ack>—Number of LIP LINK_REMOVE_ACKs received.

<recent-high-differential-delay>—Recent highest differential delay of this bundle link (in every 256 measurements).

<xmt-lip-addlink>—Number of LIP ADD_LINKs transmitted.

<xmt-lip-hello>—Number of LIP HELLOs transmitted.

<xmt-lip-hello-ack>—Number of LIP HELLO_ACKs transmitted.

<xmt-lip-link-ack>—Number of LIP LINK_ACKs transmitted.

<xmt-lip-link-rej>—Number of LIP LINK_REJs transmitted.

<xmt-lip-link-rem>—Number of LIP LINK_REMOVEs transmitted.

<xmt-lip-rem-ack>—Number of LIP LINK_REMOVE_ACKs transmitted.

<mlfr-uni-nni-link-information>

Usage
```
<mlfr-uni-nni-traffic-statistics>
  <mlfr-uni-nni-link-information>
    <active-bundle-links>active-bundle-links</active-bundle-links>
    <removed-bundle-links>removed-bundle-links</removed-bundle-links>
    <disabled-bundle-links>disabled-bundle-links</disabled-bundle-links>
  </mlfr-uni-nni-link-information>
</mlfr-uni-nni-traffic-statistics>
```

Description No documentation is available yet.

Contents <active-bundle-links>—Number of active bundle links in this multilink Frame Relay UNI NNI bundle instance.

<disabled-bundle-links>—Number of bundle links that are not allowed to transmit in this multilink Frame Relay UNI NNI bundle instance.

<removed-bundle-links>—Number of bundle links that are removed from service in this multilink Frame Relay UNI NNI bundle instance.

<mlfr-uni-nni-traffic-statistics>

Usage
```
<physical-interface>
  <mlfr-uni-nni-traffic-statistics>
    <bundle>...</bundle>
    <mlfr-uni-nni-link-information>...</mlfr-uni-nni-link-information>
    <mlfr-uni-nni-link>...</mlfr-uni-nni-link>
  </mlfr-uni-nni-traffic-statistics>
</physical-interface>
```

Description No documentation is available yet.

Contents <bundle>—No documentation is available yet.

<mlfr-uni-nni-link>—No documentation is available yet.

<mlfr-uni-nni-link-information>—No documentation is available yet.

<modem-information>

Usage

```
<physical-interface>
  <modem-information>
    <modem-type>modem-type</modem-type>
    <init-command-str>init-command-str</init-command-str>
    <init-status>init-status</init-status>
    <baud-rate>baud-rate</baud-rate>
    <call-status>call-status</call-status>
    <error-code>error-code</error-code>
    <call-duration>call-duration</call-duration>
    <call-direction>call-direction</call-direction>
  </modem-information>
</physical-interface>
```

Description Operational information for MODEM interfaces.

Contents <baud-rate>—Modem baud rate.

<call-direction>—Direction of call (incoming or outgoing).

<call-duration>—Duration for which call has been on.

<call-status>—Current status of call.

<error-code>—Error string as returned by modem.

<init-command-str>—Modem initialization command string.

<init-status>—Modem initialization status.

<modem-type>—Modem type information.

<multilink-bundle-class>

Usage

```
<logical-interface>
  <multilink-bundle-class>
    <multilink-class-id>multilink-class-id</multilink-class-id>
    <rx-sequence-number>rx-sequence-number</rx-sequence-number>
    <tx-sequence-number>tx-sequence-number</tx-sequence-number>
    <packet-drops>packet-drops</packet-drops>
    <packet-drop-bytes>packet-drop-bytes</packet-drop-bytes>
    <fragment-drops>fragment-drops</fragment-drops>
    <fragment-drop-bytes>fragment-drop-bytes</fragment-drop-bytes>
    <mrru-exceeded>mrru-exceeded</mrru-exceeded>
    <processing-errors>processing-errors</processing-errors>
    <fragment-timeout>fragment-timeout</fragment-timeout>

<sequence-number-missing>sequence-number-missing</sequence-number-missing>
    <out-of-order-sequence-number>out-of-order-sequence-number
                </out-of-order-sequence-number>
    <out-of-range-sequence-number>out-of-range-sequence-number
                </out-of-range-sequence-number>
    <packet-buffer-overflow>packet-buffer-overflow</packet-buffer-overflow>
    <fragment-buffer-overflow>fragment-buffer-overflow</fragment-buffer-overflow>
    <multilink-class-drop-timeout>multilink-class-drop-timeout
                </multilink-class-drop-timeout>
  </multilink-bundle-class>
</logical-interface>
```

Description Multilink class status.

Contents <fragment-buffer-overflow>—Number of times the fragment data buffer overflowed.

<fragment-drop-bytes>—Number of bytes in dropped fragments.

<fragment-drops>—Number of fragments dropped.

<fragment-timeout>—Fragments timed out during assembly.

<mrru-exceeded>—Number of assembled packets that exceeded MRRU.

<multilink-class-drop-timeout>—Drop timeout for multilink class (milliseconds).

<multilink-class-id>—Multilink class ID.

<out-of-order-sequence-number>—Fragments with an out-of-order sequence number.

<out-of-range-sequence-number>—Fragments with an out-of-range sequence number.

<packet-buffer-overflow>—Number of times the packet data buffer overflowed.

<packet-drop-bytes>—Number of bytes in dropped packets.

<packet-drops>—Number of packets dropped.

<processing-errors>—Number of errors encountered in assembling packets.

<rx-sequence-number>—Received sequence number.

<sequence-number-missing>—Gap detected in sequence numbers.

<tx-sequence-number>—Transmitted sequence number.

<multilink-bundle-errors>

Usage

```
<physical-interface | logical-interface>
  <multilink-bundle-errors>
    <packet-drops>packet-drops</packet-drops>
    <packet-drop-bytes>packet-drop-bytes</packet-drop-bytes>
    <fragment-drops>fragment-drops</fragment-drops>
    <fragment-drop-bytes>fragment-drop-bytes</fragment-drop-bytes>
    <mrru-exceeded>mrru-exceeded</mrru-exceeded>
    <processing-errors>processing-errors</processing-errors>
  </multilink-bundle-errors>
</physical-interface | logical-interface>
```

Description Multilink bundle errors.

Contents <fragment-drop-bytes>—Number of bytes in dropped fragments.

<fragment-drops>—Number of fragments dropped.

<mrru-exceeded>—Number of assembled packets that exceeded MRRU.

<packet-drop-bytes>—Number of bytes in dropped packets.

<packet-drops>—Number of packets dropped.

<processing-errors>—Number of errors encountered in assembling packets.

<multilink-bundle-link-information>

Usage

```
<logical-interface>
  <multilink-bundle-link-information>
    <multilink-active-bundle-links>multilink-active-bundle-links
                </multilink-active-bundle-links>
    <multilink-removed-bundle-links>multilink-removed-bundle-links
                </multilink-removed-bundle-links>
    <multilink-disabled-bundle-links>multilink-disabled-bundle-links
                </multilink-disabled-bundle-links>
  </multilink-bundle-link-information>
</logical-interface>
```

Description No documentation is available yet.

Contents <multilink-active-bundle-links>—Number of active bundle links in this multilink bundle instance.

<multilink-disabled-bundle-links>—Number of bundle links that are not allowed to transmit in this multilink bundle instance.

<multilink-removed-bundle-links>—Number of bundle links that are removed from service in this multilink bundle instance.

<multilink-bundle-options>

Usage

```
<logical-interface>
  <multilink-bundle-options>
    <mrru>mrru</mrru>
    <remote-mrru>remote-mrru</remote-mrru>
    <drop-timeout>drop-timeout</drop-timeout>
    <mlppp-inner-ppp-pfc>mlppp-inner-ppp-pfc</mlppp-inner-ppp-pfc>
    <sequence-number-format>sequence-number-format</sequence-number-format>
    <fragment-threshold>fragment-threshold</fragment-threshold>
    <minimum-links>minimum-links</minimum-links>
    <interleave-fragments>interleave-fragments</interleave-fragments>
    <multilink-classes>multilink-classes</multilink-classes>
    <link-layer-overhead>link-layer-overhead</link-layer-overhead>
  </multilink-bundle-options>
</logical-interface>
```

Description No documentation is available yet.

Contents <drop-timeout>—No documentation is available yet.

<fragment-threshold>—No documentation is available yet.

<interleave-fragments>—No documentation is available yet.

<link-layer-overhead>—Link layer overhead.

<minimum-links>—No documentation is available yet.

<mlppp-inner-ppp-pfc>—MLPPP inner PPP protocol field compression.

<mrru>—No documentation is available yet.

<multilink-classes>—Number of multilink classes.

<remote-mrru>—Remote max received reconstructed unit.

<sequence-number-format>—No documentation is available yet.

<multilink-bundle-status>

Usage

```
<logical-interface>
  <multilink-bundle-status>
    <rx-sequence-number>rx-sequence-number</rx-sequence-number>
    <tx-sequence-number>tx-sequence-number</tx-sequence-number>
    <packet-drops>packet-drops</packet-drops>
    <packet-drop-bytes>packet-drop-bytes</packet-drop-bytes>
    <fragment-drops>fragment-drops</fragment-drops>
    <fragment-drop-bytes>fragment-drop-bytes</fragment-drop-bytes>
    <mrru-exceeded>mrru-exceeded</mrru-exceeded>
    <processing-errors>processing-errors</processing-errors>
    <fragment-timeout>fragment-timeout</fragment-timeout>

<sequence-number-missing>sequence-number-missing</sequence-number-missing>
    <out-of-order-sequence-number>out-of-order-sequence-number
                </out-of-order-sequence-number>
    <out-of-range-sequence-number>out-of-range-sequence-number
                </out-of-range-sequence-number>
    <packet-buffer-overflow>packet-buffer-overflow</packet-buffer-overflow>
    <fragment-buffer-overflow>fragment-buffer-overflow</fragment-buffer-overflow>
  </multilink-bundle-status>
</logical-interface>
```

Description Multilink bundle status.

Contents

<fragment-buffer-overflow>—Number of times the fragment data buffer overflowed.

<fragment-drop-bytes>—Number of bytes in dropped fragments.

<fragment-drops>—Number of fragments dropped.

<fragment-timeout>—Fragments timed out during assembly.

<mrru-exceeded>—Number of assembled packets that exceeded MRRU.

<out-of-order-sequence-number>—Fragments with an out-of-order sequence number.

<out-of-range-sequence-number>—Fragments with an out-of-range sequence number.

<packet-buffer-overflow>—Number of times the packet data buffer overflowed.

<packet-drop-bytes>—Number of bytes in dropped packets.

<packet-drops>—Number of packets dropped.

<processing-errors>—Number of errors encountered in assembling packets.

<rx-sequence-number>—Received sequence number.

<sequence-number-missing>—Gap detected in sequence numbers.

<tx-sequence-number>—Transmitted sequence number.

<multilink-detail-statistics>

Usage

```
<multilink-traffic-statistics>
  <multilink-detail-statistics>
    <bundle-detail>...</bundle-detail>
    <class-detail>...</class-detail>
  </multilink-detail-statistics>
</multilink-traffic-statistics>
```

Description No documentation is available yet.

Contents <bundle-detail>—No documentation is available yet.

<class-detail>—No documentation is available yet.

<multilink-frames>

Usage

```
<bundle | class>
  <multilink-frames>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </multilink-frames>
</bundle | class>
```

Description Link-pic bound frame statistics for multilink bundles and classes.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<multilink-interface-errors>

Usage

```
<physical-interface>
  <multilink-interface-errors>
    <oversized-frames>oversized-frames</oversized-frames>
    <input-error-frames>input-error-frames</input-error-frames>
    <input-disabled-bundle>input-disabled-bundle</input-disabled-bundle>
    <output-disabled-bundle>output-disabled-bundle</output-disabled-bundle>
    <queuing-drops>queuing-drops</queuing-drops>
    <packet-buffer-overflow>packet-buffer-overflow</packet-buffer-overflow>
    <fragment-buffer-overflow>fragment-buffer-overflow</fragment-buffer-overflow>
    <fragment-timeout>fragment-timeout</fragment-timeout>

  <sequence-number-missing>sequence-number-missing</sequence-number-missing>
    <out-of-order-sequence-number>out-of-order-sequence-number
                </out-of-order-sequence-number>
    <out-of-range-sequence-number>out-of-range-sequence-number
                </out-of-range-sequence-number>
    <data-memory-error>data-memory-error</data-memory-error>
    <control-memory-error>control-memory-error</control-memory-error>
  </multilink-interface-errors>
</physical-interface>
```

Description No documentation is available yet.

Contents

<control-memory-error>—Errors detected in control memory.

<data-memory-error>—Errors detected in data memory.

<fragment-buffer-overflow>—Number of times the fragment data buffer overflowed.

<fragment-timeout>—Fragments timed out during assembly.

<input-disabled-bundle>—Count of packets received on a disabled link or bundle.

<input-error-frames>—Number of frames for which an error occurred on input.

<out-of-order-sequence-number>—Fragments with an out-of-order sequence number.

<out-of-range-sequence-number>—Fragments with an out-of-range sequence number.

<output-disabled-bundle>—Count of packets transmitted on a disabled link or bundle.

<oversized-frames>—Number of oversized frames detected.

<packet-buffer-overflow>—Number of times the packet data buffer overflowed.

<queuing-drops>—Count of packets dropped by the output queue of the I/O Manager ASIC.

<sequence-number-missing>—Gap detected in sequence numbers.

<multilink-traffic-statistics>

Usage

```
<logical-interface>
  <multilink-traffic-statistics>
    <bundle>...</bundle>
    <class>...</class>
    <link>...</link>
    <multilink-detail-statistics>...</multilink-detail-statistics>
    <crtp>...</crtp>
  </multilink-traffic-statistics>
</logical-interface>
```

Description No documentation is available yet.

Contents <bundle>—No documentation is available yet.

<class>—Multilink class traffic statistics.

<crtp>—No documentation is available yet.

<link>—No documentation is available yet.

<multilink-detail-statistics>—No documentation is available yet.

<ncp-information>

Usage

```
<physical-interface | logical-interface>
  <ncp-information>
    <ncp-protocol>ncp-protocol</ncp-protocol>
    <ncp-state>ncp-state</ncp-state>
  </ncp-information>
</physical-interface | logical-interface>
```

Description Network Control Protocol information.

Contents <ncp-protocol>—Network protocol for this NCP instance.

<ncp-state>—State of this NCP instance.

<network-frames>

Usage

```
<bundle | class>
  <network-frames>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </network-frames>
</bundle | class>
```

Description Internet/RE bound frame statistics for multilink bundles and classes.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<non-fragments>

Usage

```
<bundle-detail | class-detail>
  <non-fragments>
    <input-frames>input-frames</input-frames>
    <input-fps>input-fps</input-fps>
    <input-bytes>input-bytes</input-bytes>
    <input-bps>input-bps</input-bps>
    <output-frames>output-frames</output-frames>
    <output-fps>output-fps</output-fps>
    <output-bytes>output-bytes</output-bytes>
    <output-bps>output-bps</output-bps>
  </non-fragments>
</bundle-detail | class-detail>
```

Description Non-fragment statistics for multilink bundles and classes.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-fps>—No documentation is available yet.

<input-frames>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-fps>—No documentation is available yet.

<output-frames>—No documentation is available yet.

<nxds0-information>

Usage

```
<physical-interface>
  <nxds0-information>
    <interface-tx-queue>...</interface-tx-queue>
  </nxds0-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <interface-tx-queue>—No documentation is available yet.

<oam-parameters>

Usage

```
<virtual-path-information | virtual-circuit-information>
  <oam-parameters>
    <period>period</period>
    <up-count>up-count</up-count>
    <down-count>down-count</down-count>
  </oam-parameters>
</virtual-path-information | virtual-circuit-information>
```

Description No documentation is available yet.

Contents <down-count>—No documentation is available yet.

<period>—No documentation is available yet.

<up-count>—No documentation is available yet.

<oam-statistics>

Usage

```
<virtual-path-information | virtual-circuit-information>
  <oam-statistics>
    <oam-loopback-received-count>oam-loopback-received-count
                </oam-loopback-received-count>
    <oam-loopback-received-last>oam-loopback-received-last
                </oam-loopback-received-last>
    <oam-loopback-transmitted-count>oam-loopback-transmitted-count
                </oam-loopback-transmitted-count>
    <oam-loopback-transmitted-last>oam-loopback-transmitted-last
                </oam-loopback-transmitted-last>
    <oam-rdi-received-count>oam-rdi-received-count</oam-rdi-received-count>
    <oam-rdi-received-last>oam-rdi-received-last</oam-rdi-received-last>
    <oam-rdi-transmitted-count>oam-rdi-transmitted-count
                </oam-rdi-transmitted-count>
    <oam-rdi-transmitted-last>oam-rdi-transmitted-last</oam-rdi-transmitted-last>
    <oam-ais-received-count>oam-ais-received-count</oam-ais-received-count>
    <oam-ais-received-last>oam-ais-received-last</oam-ais-received-last>
    <oam-ais-transmitted-count>oam-ais-transmitted-count
                </oam-ais-transmitted-count>
    <oam-ais-transmitted-last>oam-ais-transmitted-last</oam-ais-transmitted-last>
    <oam-total-transmitted-count>oam-total-transmitted-count
                </oam-total-transmitted-count>
    <oam-total-received-count>oam-total-received-count</oam-total-received-count>
    <oam-total-transmitted-count-4>oam-total-transmitted-count-4
                </oam-total-transmitted-count-4>
    <oam-total-received-count-4>oam-total-received-count-4
                </oam-total-received-count-4>
  </oam-statistics>
</virtual-path-information | virtual-circuit-information>
```

Description Container tag for OAM statistics.

Contents

<oam-ais-received-count>—No documentation is available yet.

<oam-ais-received-last>—No documentation is available yet.

<oam-ais-transmitted-count>—No documentation is available yet.

<oam-ais-transmitted-last>—No documentation is available yet.

<oam-loopback-received-count>—No documentation is available yet.

<oam-loopback-received-last>—No documentation is available yet.

<oam-loopback-transmitted-count>—No documentation is available yet.

<oam-loopback-transmitted-last>—No documentation is available yet.

<oam-rdi-received-count>—No documentation is available yet.

<oam-rdi-received-last>—No documentation is available yet.

<oam-rdi-transmitted-count>—No documentation is available yet.

<oam-rdi-transmitted-last>—No documentation is available yet.

<oam-total-received-count>—No documentation is available yet.

<oam-total-received-count-4>—No documentation is available yet.

<oam-total-transmitted-count>—No documentation is available yet.

<oam-total-transmitted-count-4>—No documentation is available yet.

<optics-diagnostics>

Usage <link-entry>

<optics-diagnostics>

<optic-diagnostics-not-available>*optic-diagnostics-not-available*
</optic-diagnostics-not-available>
<laser-bias-current-not-available>*laser-bias-current-not-available*
</laser-bias-current-not-available>
<laser-tx-power-not-available>*laser-tx-power-not-available*
</laser-tx-power-not-available>
<module-temperature-not-available>*module-temperature-not-available*
</module-temperature-not-available>
<laser-rx-power-not-available>*laser-rx-power-not-available*
</laser-rx-power-not-available>
<laser-bias-current>*laser-bias-current*</laser-bias-current>
<laser-output-power>*laser-output-power*</laser-output-power>
<laser-output-power-dbm>*laser-output-power-dbm*</laser-output-power-dbm>
<module-temperature>*module-temperature*</module-temperature>
<module-voltage>*module-voltage*</module-voltage>
<rx-signal-avg-optical-power>*rx-signal-avg-optical-power*
</rx-signal-avg-optical-power>
<rx-signal-avg-optical-power-dbm>*rx-signal-avg-optical-power-dbm*
</rx-signal-avg-optical-power-dbm>
<laser-rx-optical-power>*laser-rx-optical-power*</laser-rx-optical-power>
<laser-rx-optical-power-dbm>*laser-rx-optical-power-dbm*
</laser-rx-optical-power-dbm>
<laser-bias-current-high-alarm>*laser-bias-current-high-alarm*
</laser-bias-current-high-alarm>
<laser-bias-current-low-alarm>*laser-bias-current-low-alarm*
</laser-bias-current-low-alarm>
<laser-bias-current-high-warn>*laser-bias-current-high-warn*
</laser-bias-current-high-warn>
<laser-bias-current-low-warn>*laser-bias-current-low-warn*
</laser-bias-current-low-warn>
<module-voltage-high-alarm>*module-voltage-high-alarm*
</module-voltage-high-alarm>
<module-voltage-low-alarm>*module-voltage-low-alarm*</module-voltage-low-alarm>
<module-voltage-high-warn>*module-voltage-high-warn*</module-voltage-high-warn>
<module-voltage-low-warn>*module-voltage-low-warn*</module-voltage-low-warn>
<laser-tx-power-high-alarm>*laser-tx-power-high-alarm*
</laser-tx-power-high-alarm>
<laser-tx-power-low-alarm>*laser-tx-power-low-alarm*</laser-tx-power-low-alarm>
<laser-tx-power-high-warn>*laser-tx-power-high-warn*</laser-tx-power-high-warn>
<laser-tx-power-low-warn>*laser-tx-power-low-warn*</laser-tx-power-low-warn>
<module-temperature-high-alarm>*module-temperature-high-alarm*
</module-temperature-high-alarm>
<module-temperature-low-alarm>*module-temperature-low-alarm*
</module-temperature-low-alarm>
<module-temperature-high-warn>*module-temperature-high-warn*
</module-temperature-high-warn>
<module-temperature-low-warn>*module-temperature-low-warn*
</module-temperature-low-warn>
<laser-rx-power-high-alarm>*laser-rx-power-high-alarm*
</laser-rx-power-high-alarm>

```
        <laser-rx-power-low-alarm>laser-rx-power-low-alarm</laser-rx-power-low-alarm>
        <laser-rx-power-high-warn>laser-rx-power-high-warn</laser-rx-power-high-warn>
        <laser-rx-power-low-warn>laser-rx-power-low-warn</laser-rx-power-low-warn>
        <laser-end-of-life-alarm>laser-end-of-life-alarm</laser-end-of-life-alarm>
        <laser-wavelength-alarm>laser-wavelength-alarm</laser-wavelength-alarm>
        <laser-bias-current-alarm>laser-bias-current-alarm</laser-bias-current-alarm>

    <module-temperature-alarm>module-temperature-alarm</module-temperature-alarm>
        <laser-power-alarm>laser-power-alarm</laser-power-alarm>
        <modulator-temperature-alarm>modulator-temperature-alarm
                </modulator-temperature-alarm>
        <modulator-bias-alarm>modulator-bias-alarm</modulator-bias-alarm>
        <module-not-ready-alarm>module-not-ready-alarm</module-not-ready-alarm>

    <module-power-down-alarm>module-power-down-alarm</module-power-down-alarm>
        <apd-supply-fault-alarm>apd-supply-fault-alarm</apd-supply-fault-alarm>
        <tec-fault-alarm>tec-fault-alarm</tec-fault-alarm>
        <wavelength-unlocked-alarm>wavelength-unlocked-alarm
                </wavelength-unlocked-alarm>
        <tx-mux-fifo-error-alarm>tx-mux-fifo-error-alarm</tx-mux-fifo-error-alarm>
        <tx-loss-of-pll-alarm>tx-loss-of-pll-alarm</tx-loss-of-pll-alarm>
        <tx-data-not-ready-alarm>tx-data-not-ready-alarm</tx-data-not-ready-alarm>
        <tx-not-ready-alarm>tx-not-ready-alarm</tx-not-ready-alarm>
        <tx-laser-fault-alarm>tx-laser-fault-alarm</tx-laser-fault-alarm>
        <tx-cdr-loss-of-lock-alarm>tx-cdr-loss-of-lock-alarm
                </tx-cdr-loss-of-lock-alarm>
        <rx-loss-avg-opt-power-alarm>rx-loss-avg-opt-power-alarm
                </rx-loss-avg-opt-power-alarm>
        <rx-loss-ac-power-alarm>rx-loss-ac-power-alarm</rx-loss-ac-power-alarm>
        <rx-loss-of-pll-alarm>rx-loss-of-pll-alarm</rx-loss-of-pll-alarm>
        <rx-not-ready-alarm>rx-not-ready-alarm</rx-not-ready-alarm>
        <rx-loss-of-signal-alarm>rx-loss-of-signal-alarm</rx-loss-of-signal-alarm>
        <rx-cdr-loss-of-lock-alarm>rx-cdr-loss-of-lock-alarm
                </rx-cdr-loss-of-lock-alarm>
        <module-voltage-high-alarm-threshold>module-voltage-high-alarm-threshold
                </module-voltage-high-alarm-threshold>
        <module-voltage-low-alarm-threshold>module-voltage-low-alarm-threshold
                </module-voltage-low-alarm-threshold>
        <module-voltage-high-warn-threshold>module-voltage-high-warn-threshold
                </module-voltage-high-warn-threshold>
        <module-voltage-low-warn-threshold>module-voltage-low-warn-threshold
                </module-voltage-low-warn-threshold>
        <laser-bias-current-high-alarm-threshold>laser-bias-current-high-alarm-threshold
                </laser-bias-current-high-alarm-threshold>
        <laser-bias-current-low-alarm-threshold>laser-bias-current-low-alarm-threshold
                </laser-bias-current-low-alarm-threshold>
        <laser-bias-current-high-warn-threshold>laser-bias-current-high-warn-threshold
                </laser-bias-current-high-warn-threshold>
        <laser-bias-current-low-warn-threshold>laser-bias-current-low-warn-threshold
                </laser-bias-current-low-warn-threshold>
        <laser-tx-power-high-alarm-threshold>laser-tx-power-high-alarm-threshold
                </laser-tx-power-high-alarm-threshold>
        <laser-tx-power-low-alarm-threshold>laser-tx-power-low-alarm-threshold
                </laser-tx-power-low-alarm-threshold>
```

```
        <laser-tx-power-high-warn-threshold>laser-tx-power-high-warn-threshold
                </laser-tx-power-high-warn-threshold>
        <laser-tx-power-low-warn-threshold>laser-tx-power-low-warn-threshold
                </laser-tx-power-low-warn-threshold>
        <laser-tx-power-high-alarm-threshold-dbm>laser-tx-power-high-alarm-threshold-dbm
                </laser-tx-power-high-alarm-threshold-dbm>
        <laser-tx-power-low-alarm-threshold-dbm>laser-tx-power-low-alarm-threshold-dbm
                </laser-tx-power-low-alarm-threshold-dbm>
        <laser-tx-power-high-warn-threshold-dbm>laser-tx-power-high-warn-threshold-dbm
                </laser-tx-power-high-warn-threshold-dbm>
        <laser-tx-power-low-warn-threshold-dbm>laser-tx-power-low-warn-threshold-dbm
                </laser-tx-power-low-warn-threshold-dbm>

    <module-temperature-high-alarm-threshold>module-temperature-high-alarm-threshold
                </module-temperature-high-alarm-threshold>
        <module-temperature-low-alarm-threshold>module-temperature-low-alarm-threshold
                </module-temperature-low-alarm-threshold>
        <module-temperature-high-warn-threshold>module-temperature-high-warn-threshold
                </module-temperature-high-warn-threshold>
        <module-temperature-low-warn-threshold>module-temperature-low-warn-threshold
                </module-temperature-low-warn-threshold>
        <laser-rx-power-high-alarm-threshold>laser-rx-power-high-alarm-threshold
                </laser-rx-power-high-alarm-threshold>
        <laser-rx-power-low-alarm-threshold>laser-rx-power-low-alarm-threshold
                </laser-rx-power-low-alarm-threshold>
        <laser-rx-power-high-warn-threshold>laser-rx-power-high-warn-threshold
                </laser-rx-power-high-warn-threshold>
        <laser-rx-power-low-warn-threshold>laser-rx-power-low-warn-threshold
                </laser-rx-power-low-warn-threshold>
        <laser-rx-power-high-alarm-threshold-dbm>laser-rx-power-high-alarm-threshold-dbm
                </laser-rx-power-high-alarm-threshold-dbm>
        <laser-rx-power-low-alarm-threshold-dbm>laser-rx-power-low-alarm-threshold-dbm
                </laser-rx-power-low-alarm-threshold-dbm>
        <laser-rx-power-high-warn-threshold-dbm>laser-rx-power-high-warn-threshold-dbm
                </laser-rx-power-high-warn-threshold-dbm>
        <laser-rx-power-low-warn-threshold-dbm>laser-rx-power-low-warn-threshold-dbm
                </laser-rx-power-low-warn-threshold-dbm>
        <optics-diagnostics-lane-values>...</optics-diagnostics-lane-values>
      </optics-diagnostics>
    </link-entry>
```

Description Optics diagnostics.

Contents <apd-supply-fault-alarm>—APD supply fault alarm.

<laser-bias-current>—Laser bias current (milliamperes).

<laser-bias-current-alarm>—Laser bias current alarm.

<laser-bias-current-high-alarm>—Laser bias current high alarm.

<laser-bias-current-high-alarm-threshold>—Laser bias current high alarm threshold (milliamperes).

<laser-bias-current-high-warn>—Laser bias current high warning.

<laser-bias-current-high-warn-threshold>—Laser bias current high warning threshold (milliamperes).

<laser-bias-current-low-alarm>—Laser bias current low alarm.

<laser-bias-current-low-alarm-threshold>—Laser bias current low alarm threshold (milliamperes).

<laser-bias-current-low-warn>—Laser bias current low warning.

<laser-bias-current-low-warn-threshold>—Laser bias current low warning threshold (milliamperes).

<laser-bias-current-not-available>—Laser bias current measurement not available.

<laser-end-of-life-alarm>—Laser end-of-life alarm.

<laser-output-power>—Laser output power (milliwatts).

<laser-output-power-dbm>—Laser output power (dBm).

<laser-power-alarm>—Laser power alarm.

<laser-rx-optical-power>—Laser receiver optical power (milliwatts).

<laser-rx-optical-power-dbm>—Laser receiver optical power (dBm).

<laser-rx-power-high-alarm>—Laser receiver optical power high alarm.

<laser-rx-power-high-alarm-threshold>—Laser receiver power high alarm (milliwatts).

<laser-rx-power-high-alarm-threshold-dbm>—Laser receiver power high alarm (dBm).

<laser-rx-power-high-warn>—Laser receiver optical power high warning.

<laser-rx-power-high-warn-threshold>—Laser receiver power high warning (milliwatts).

<laser-rx-power-high-warn-threshold-dbm>—Laser receiver power high warning (dBm).

<laser-rx-power-low-alarm>—Laser receiver optical power low alarm.

<laser-rx-power-low-alarm-threshold>—Laser receiver power low alarm (milliwatts).

<laser-rx-power-low-alarm-threshold-dbm>—Laser receiver power low alarm (dBm).

<laser-rx-power-low-warn>—Laser receiver optical power low warning.

<laser-rx-power-low-warn-threshold>—Laser receiver power low warning (milliwatts).

<laser-rx-power-low-warn-threshold-dbm>—Laser receiver power low warning (dBm).

<laser-rx-power-not-available>—Laser receiver optical power measurement not available.

<laser-tx-power-high-alarm>—Laser transmitter optical power high alarm.

<laser-tx-power-high-alarm-threshold>—Laser transmitter power high alarm threshold (milliwatts).

<laser-tx-power-high-alarm-threshold-dbm>—Laser transmitter power high alarm threshold (dBm).

<laser-tx-power-high-warn>—Laser transmitter optical power high warning.

<laser-tx-power-high-warn-threshold>—Laser transmitter power high warning threshold (milliwatts).

<laser-tx-power-high-warn-threshold-dbm>—Laser transmitter power high warning threshold (dBm).

<laser-tx-power-low-alarm>—Laser transmitter optical power low alarm.

<laser-tx-power-low-alarm-threshold>—Laser transmitter power low alarm threshold (milliwatts).

<laser-tx-power-low-alarm-threshold-dbm>—Laser transmitter power low alarm threshold (dBm).

<laser-tx-power-low-warn>—Laser transmitter optical power low warning.

<laser-tx-power-low-warn-threshold>—Laser transmitter power low warning threshold (milliwatts).

<laser-tx-power-low-warn-threshold-dbm>—Laser transmitter power low warning threshold (dBm).

<laser-tx-power-not-available>—Laser output power measurement not available.

<laser-wavelength-alarm>—Laser wavelength alarm.

<modulator-bias-alarm>—Modulator bias alarm.

<modulator-temperature-alarm>—Modulator temperature alarm.

<module-not-ready-alarm>—Module not ready alarm.

<module-power-down-alarm>—Module power down alarm.

<module-temperature>—Module temperature.

<module-temperature-alarm>—Module temperature alarm.

<module-temperature-high-alarm>—Module temperature high alarm.

<module-temperature-high-alarm-threshold>—Module temperature high alarm threshold.

<module-temperature-high-warn>—Module temperature high warning.

<module-temperature-high-warn-threshold>—Module temperature high warning threshold.

<module-temperature-low-alarm>—Module temperature low alarm.

<module-temperature-low-alarm-threshold>—Module temperature low alarm threshold.

<module-temperature-low-warn>—Module temperature low warning.

<module-temperature-low-warn-threshold>—Module temperature low warning threshold.

<module-temperature-not-available>—Module temperature measurement not available.

<module-voltage>—Module voltage.

<module-voltage-high-alarm>—Module voltage high alarm.

<module-voltage-high-alarm-threshold>—Module voltage high alarm threshold (volts).

<module-voltage-high-warn>—Module voltage high warning.

<module-voltage-high-warn-threshold>—Module voltage high warning threshold (volts).

<module-voltage-low-alarm>—Module voltage low alarm.

<module-voltage-low-alarm-threshold>—Module voltage low alarm threshold (volts).

<module-voltage-low-warn>—Module voltage low warning.

<module-voltage-low-warn-threshold>—Module voltage low warning threshold (volts).

<optic-diagnostics-not-available>—Optical diagnostics not supported by this transceiver.

<optics-diagnostics-lane-values>—No documentation is available yet.

<rx-cdr-loss-of-lock-alarm>—Receiver CDR loss of lock alarm.

<rx-loss-ac-power-alarm>—Receiver loss of AC power alarm.

<rx-loss-avg-opt-power-alarm>—Receiver loss of average optical power alarm.

<rx-loss-of-pll-alarm>—Receiver loss of PLL alarm.

<rx-loss-of-signal-alarm>—Receiver loss of signal alarm.

<rx-not-ready-alarm>—Receiver not ready alarm.

<rx-signal-avg-optical-power>—Receiver signal average power (milliwatts).

<rx-signal-avg-optical-power-dbm>—Receiver signal average power (dBm).

<tec-fault-alarm>—TEC fault alarm.

<tx-cdr-loss-of-lock-alarm>—Tx CDR loss of lock alarm.

<tx-data-not-ready-alarm>—Tx data not ready alarm.

<tx-laser-fault-alarm>—Tx laser fault alarm.

<tx-loss-of-pll-alarm>—Tx loss of PLL alarm.

<tx-mux-fifo-error-alarm>—Tx multiplexer fifo error alarm.

<tx-not-ready-alarm>—Tx not ready alarm.

<wavelength-unlocked-alarm>—Wavelength unlocked alarm.

<optics-diagnostics-lane-values>

Usage

```
<optics-diagnostics>
  <optics-diagnostics-lane-values>
    <lane-index>lane-index</lane-index>
    <laser-bias-current>laser-bias-current</laser-bias-current>
    <laser-output-power>laser-output-power</laser-output-power>
    <laser-output-power-dbm>laser-output-power-dbm</laser-output-power-dbm>
    <module-temperature>module-temperature</module-temperature>
    <laser-rx-optical-power>laser-rx-optical-power</laser-rx-optical-power>
    <laser-rx-optical-power-dbm>laser-rx-optical-power-dbm
                </laser-rx-optical-power-dbm>
    <laser-bias-current-high-alarm>laser-bias-current-high-alarm
                </laser-bias-current-high-alarm>
    <laser-bias-current-low-alarm>laser-bias-current-low-alarm
                </laser-bias-current-low-alarm>
    <laser-bias-current-high-warn>laser-bias-current-high-warn
                </laser-bias-current-high-warn>
    <laser-bias-current-low-warn>laser-bias-current-low-warn
                </laser-bias-current-low-warn>
  </optics-diagnostics-lane-values>
</optics-diagnostics>
```

Description No documentation is available yet.

Contents

<lane-index>—No documentation is available yet.

<laser-bias-current>—Laser bias current (milliamperes).

<laser-bias-current-high-alarm>—Laser bias current high alarm.

<laser-bias-current-high-warn>—Laser bias current high warning.

<laser-bias-current-low-alarm>—Laser bias current low alarm.

<laser-bias-current-low-warn>—Laser bias current low warning.

<laser-output-power>—Laser output power (milliwatts).

<laser-output-power-dbm>—Laser output power (dBm).

<laser-rx-optical-power>—Laser receiver optical power (milliwatts).

<laser-rx-optical-power-dbm>—Laser receiver optical power (dBm).

<module-temperature>—Module temperature.

<optics-properties>

Usage
```
<physical-interface>
  <optics-properties>
    <wavelength>wavelength</wavelength>
    <frequency>frequency</frequency>
  </optics-properties>
</physical-interface>
```

Description Optics properties.

Contents <frequency>—Frequency of optics in terahertz.

<wavelength>—Wavelength of optics in nanometers.

<otn-errors>

Usage
```
<physical-interface>
  <otn-errors>
    <media-alarm>...</media-alarm>
  </otn-errors>
</physical-interface>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<otn-fec-mode>

Usage
```
<physical-interface>
  <otn-fec-mode>
    <fec-mode>fec-mode</fec-mode>
  </otn-fec-mode>
</physical-interface>
```

Description No documentation is available yet.

Contents <fec-mode>—No documentation is available yet.

<otn-fec-statistics>

Usage
```
<physical-interface>
  <otn-fec-statistics>
    <fec-corrected-errors>fec-corrected-errors</fec-corrected-errors>
    <fec-corrected-error-ratio>fec-corrected-error-ratio
                </fec-corrected-error-ratio>
  </otn-fec-statistics>
</physical-interface>
```

Description No documentation is available yet.

Contents <fec-corrected-error-ratio>—No documentation is available yet.

<fec-corrected-errors>—No documentation is available yet.

<otn-oc-information>

Usage
```
<physical-interface>
  <otn-oc-information>
    <media-alarm>...</media-alarm>
  </otn-oc-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<otn-odu-information>

Usage
```
<physical-interface>
  <otn-odu-information>
    <media-alarm>...</media-alarm>
  </otn-odu-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<otn-otn-loopback>

Usage
```
<physical-interface>
  <otn-otn-loopback>
    <otn-loopback>otn-loopback</otn-loopback>
  </otn-otn-loopback>
</physical-interface>
```

Description No documentation is available yet.

Contents <otn-loopback>—No documentation is available yet.

<otn-otn-mode>

Usage
```
<physical-interface>
  <otn-otn-mode>
    <otn-mode>otn-mode</otn-mode>
  </otn-otn-mode>
</physical-interface>
```

Description No documentation is available yet.

Contents <otn-mode>—No documentation is available yet.

<otn-otn-rate>

Usage
```
<physical-interface>
  <otn-otn-rate>
    <otn-rate>otn-rate</otn-rate>
  </otn-otn-rate>
</physical-interface>
```

Description No documentation is available yet.

Contents <otn-rate>—No documentation is available yet.

<otn-otu-information>

Usage
```
<physical-interface>
  <otn-otu-information>
    <media-alarm>...</media-alarm>
  </otn-otu-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<output-error-list>

Usage

```
<physical-interface>
  <output-error-list>
    <carrier-transitions>carrier-transitions</carrier-transitions>
    <output-errors>output-errors</output-errors>
    <output-drops>output-drops</output-drops>
    <output-collisions>output-collisions</output-collisions>
    <output-hs-link-fifo-overflows>output-hs-link-fifo-overflows
                </output-hs-link-fifo-overflows>
    <aged-packets>aged-packets</aged-packets>
    <output-fifo-errors>output-fifo-errors</output-fifo-errors>
    <hs-link-fifo-underflows>hs-link-fifo-underflows</hs-link-fifo-underflows>
    <hs-link-crc-errors>hs-link-crc-errors</hs-link-crc-errors>
    <mtu-errors>mtu-errors</mtu-errors>
    <output-resource-errors>output-resource-errors</output-resource-errors>
  </output-error-list>
</physical-interface>
```

Description Output errors on this interface.

Contents

<aged-packets>—Number of packets that remained in shared packet SDRAM for so long that the system automatically purged them. The value in this field should never increment. If it does, it is most likely a software bug or possible broken hardware.

<carrier-transitions>—Number of times the interface has gone from down to up. This number should not increment quickly, increasing, for example, only when the cable is unplugged or the far-end system is powered down and up. If it does increment quickly (perhaps 1 every 10 seconds), then something is broken: the cable, the far-end system, or the PIC.

<hs-link-crc-errors>—Count of errors on the high-speed links between the ASICs responsible for handling the router interfaces.

<hs-link-fifo-underflows>—Numbers of errors on the high-speed links between the ASICs responsible for handling the router interfaces. The value in this field should always be 0. If it increments, either the FPC or the PIC is broken.

<mtu-errors>—Number of packets whose size exceeded MTU of interface.

<output-collisions>—Number of Ethernet collisions. The Gigabit Ethernet PIC and Fast Ethernet PIC support only full-duplex operation, so this number should always remain 0. If it is nonzero, there is a software bug.

<output-drops>—Number of packets dropped by the output queue of the I/O Manager ASIC. If the interface is saturated, this number increments once for every packet that is dropped by the ASIC's RED mechanism.

<output-errors>—Sum of the outgoing frame aborts and FCS errors.

<output-fifo-errors>—No documentation is available yet.

<output-hs-link-fifo-overflows>—No documentation is available yet.

<output-resource-errors>—Sum of B chip Tx drops and IXP Tx net transmit drops.

<peer-configuration-status>

Usage
```
<physical-interface>
  <peer-configuration-status>
    <peer-nonmatching-dlci>peer-nonmatching-dlci</peer-nonmatching-dlci>
  </peer-configuration-status>
</physical-interface>
```

Description Nonmatching DCE end DLCIs.

Contents <peer-nonmatching-dlci>—DCE end DLCIs that does not match the DTE.

<pfe-information>

Usage
```
<physical-interface>
  <pfe-information>
    <destination-slot>destination-slot</destination-slot>
    <destination-mask>destination-mask</destination-mask>
    <stream-number>stream-number</stream-number>
    <stream-mask>stream-mask</stream-mask>
    <plp-byte>plp-byte</plp-byte>
    <plp-byte-count>plp-byte-count</plp-byte-count>
    <pop-all-label>pop-all-label</pop-all-label>
  </pfe-information>
</physical-interface>
```

Description Information about Packet Forwarding Engine configuration.

Contents <destination-mask>—No documentation is available yet.

<destination-slot>—No documentation is available yet.

<plp-byte>—No documentation is available yet.

<plp-byte-count>—No documentation is available yet.

<pop-all-label>—No documentation is available yet.

<stream-mask>—No documentation is available yet.

<stream-number>—No documentation is available yet.

<physical-interface>

Usage <interface-information | interface-filter-information | interface-policer-information>

```
<physical-interface>
  <name>name</name>
  <admin-status>admin-status</admin-status>
  <oper-status>oper-status</oper-status>
  <local-index>local-index</local-index>
  <snmp-index>snmp-index</snmp-index>
  <generation>generation</generation>
  <description>description</description>
  <if-type>if-type</if-type>
  <link-level-type>link-level-type</link-level-type>
  <mtu>mtu</mtu>
  <link-mode>link-mode</link-mode>
  <speed>speed</speed>
  <max-speed>max-speed</max-speed>
  <duplex>duplex</duplex>
  <clocking>clocking</clocking>
  <sonet-mode>sonet-mode</sonet-mode>
  <physical-mode>physical-mode</physical-mode>
  <l2circuit-mode>l2circuit-mode</l2circuit-mode>
  <ifd-cell-bundle-size>ifd-cell-bundle-size</ifd-cell-bundle-size>
  <ifd-cell-bundle-timeout>ifd-cell-bundle-timeout</ifd-cell-bundle-timeout>
  <loopback>loopback</loopback>
  <ih-parent>ih-parent</ih-parent>
  <atm-line-build-out>atm-line-build-out</atm-line-build-out>
  <atm-encapsulation>atm-encapsulation</atm-encapsulation>
  <atm-e3-framing>atm-e3-framing</atm-e3-framing>
  <sonet-loopback>sonet-loopback</sonet-loopback>
  <crc>crc</crc>
  <payload-scrambler>payload-scrambler</payload-scrambler>
  <ingress-rate-limit>ingress-rate-limit</ingress-rate-limit>
  <source-filtering>source-filtering</source-filtering>
  <if-flow-control>if-flow-control</if-flow-control>
  <bpdu-error>bpdu-error</bpdu-error>
  <l2pt-error>l2pt-error</l2pt-error>
  <if-unidirectional>if-unidirectional</if-unidirectional>
  <if-auto-negotiation>if-auto-negotiation</if-auto-negotiation>
  <if-remote-fault>if-remote-fault</if-remote-fault>
  <if-speed-auto-negotiation>if-speed-auto-negotiation
          </if-speed-auto-negotiation>
  <if-auto-mdix>if-auto-mdix</if-auto-mdix>
  <minimum-links-in-aggregate>minimum-links-in-aggregate
          </minimum-links-in-aggregate>
  <minimum-bandwidth-in-aggregate>minimum-bandwidth-in-aggregate
          </minimum-bandwidth-in-aggregate>
  <if-device-flags>...</if-device-flags>
  <if-config-flags>...</if-config-flags>
  <shared-interface-physical-interface>...</shared-interface-physical-interface>
  <link-type>link-type</link-type>
  <if-media-flags>...</if-media-flags>
  <optics-properties>...</optics-properties>
  <keepalive-config>...</keepalive-config>
```

<lmi-dce-config>...</lmi-dce-config>
<lmi-dte-config>...</lmi-dte-config>
<queue-counters>...</queue-counters>
<keepalive-statistics>...</keepalive-statistics>
<ppp-flags>...</ppp-flags>
<lcp-state>*lcp-state*</lcp-state>
<ncp-information>...</ncp-information>
<chap-state>*chap-state*</chap-state>
<pap-state>*pap-state*</pap-state>
<physical-information>*physical-information*</physical-information>
<es-ifd-stats>...</es-ifd-stats>
<up-hold-time>*up-hold-time*</up-hold-time>
<down-hold-time>*down-hold-time*</down-hold-time>
<current-physical-address>*current-physical-address*</current-physical-address>
<hardware-physical-address>*hardware-physical-address*
</hardware-physical-address>
<alternate-physical-address>*alternate-physical-address*
</alternate-physical-address>
<interface-flapped>*interface-flapped*</interface-flapped>
<statistics-cleared>*statistics-cleared*</statistics-cleared>
<preserve-interface>*preserve-interface*</preserve-interface>
<preserve-interface-statistics>...</preserve-interface-statistics>
<traffic-statistics>...</traffic-statistics>
<ingress-traffic-statistics>...</ingress-traffic-statistics>
<multilink-interface-errors>...</multilink-interface-errors>
<mlfr-uni-nni-bundle-options>...</mlfr-uni-nni-bundle-options>
<multilink-bundle-errors>...</multilink-bundle-errors>
<input-error-list>...</input-error-list>
<input-error-count>*input-error-count*</input-error-count>
<output-error-list>...</output-error-list>
<output-error-count>*output-error-count*</output-error-count>
<ber-threshold>...</ber-threshold>
<ds1-crc-alarm-threshold>...</ds1-crc-alarm-threshold>
<active-alarms>...</active-alarms>
<active-defects>...</active-defects>
<media-state-information>...</media-state-information>
<sonet-errors>...</sonet-errors>
<sonet-physical-information>...</sonet-physical-information>
<sonet-section-information>...</sonet-section-information>
<sonet-line-information>...</sonet-line-information>
<sonet-path-information>...</sonet-path-information>
<sonet-payload-pointer-information>...</sonet-payload-pointer-information>
<sonet-payload-pointer-curptr>*sonet-payload-pointer-curptr*
</sonet-payload-pointer-curptr>
<sonet-payload-pointer-ptrinc-count>*sonet-payload-pointer-ptrinc-count*
</sonet-payload-pointer-ptrinc-count>
<sonet-payload-pointer-ptrdec-count>*sonet-payload-pointer-ptrdec-count*
</sonet-payload-pointer-ptrdec-count>
<sonet-payload-pointer-newptr-ndf-count>*sonet-payload-pointer-newptr-ndf-count*
</sonet-payload-pointer-newptr-ndf-count>
<sonet-vt-information>...</sonet-vt-information>
<sonet-rx-overhead>*sonet-rx-overhead*</sonet-rx-overhead>
<sonet-tx-overhead>*sonet-tx-overhead*</sonet-tx-overhead>
<sonet-rx-path-trace>*sonet-rx-path-trace*</sonet-rx-path-trace>

<sonet-tx-path-trace>*sonet-tx-path-trace*</sonet-tx-path-trace>
<otn-errors>...</otn-errors>
<otn-rx-overhead>*otn-rx-overhead*</otn-rx-overhead>
<otn-tx-overhead>*otn-tx-overhead*</otn-tx-overhead>
<otn-stats-counter>*otn-stats-counter*</otn-stats-counter>
<otn-fec-statistics>...</otn-fec-statistics>
<otn-fec-mode>...</otn-fec-mode>
<otn-otn-mode>...</otn-otn-mode>
<otn-otn-rate>...</otn-otn-rate>
<otn-otn-loopback>...</otn-otn-loopback>
<otn-rx-tti>*otn-rx-tti*</otn-rx-tti>
<otn-tx-tti>*otn-tx-tti*</otn-tx-tti>
<media-information>...</media-information>
<ethernet-pcs-statistics>...</ethernet-pcs-statistics>
<ethernet-mac-statistics>...</ethernet-mac-statistics>
<ethernet-filter-statistics>...</ethernet-filter-statistics>
<ethernet-autonegotiation>...</ethernet-autonegotiation>
<link-partner-status>*link-partner-status*</link-partner-status>
<local-info>...</local-info>
<mac-database>...</mac-database>
<dsl-information>...</dsl-information>
<shdsl-information>...</shdsl-information>
<atm-information>...</atm-information>
<modem-information>...</modem-information>
<serial-information>...</serial-information>
<virtual-path-information>...</virtual-path-information>
<ct3-information>...</ct3-information>
<cds1-information>...</cds1-information>
<nxds0-information>...</nxds0-information>
<ds3-mode>*ds3-mode*</ds3-mode>
<ds3-long-buildout>*ds3-long-buildout*</ds3-long-buildout>
<e3-framing>*e3-framing*</e3-framing>
<ds1-framing>*ds1-framing*</ds1-framing>
<dsu-information>...</dsu-information>
<ds3-bert-information>...</ds3-bert-information>
<e3-bert-information>...</e3-bert-information>
<ds1-bert-information>...</ds1-bert-information>
<ds0-bert-information>...</ds0-bert-information>
<hdlc-information>...</hdlc-information>
<pfe-information>...</pfe-information>
<logical-interface>...</logical-interface>
<active-alarms-otn>...</active-alarms-otn>
<active-defects-otn>...</active-defects-otn>
<links>...</links>
<peer-configuration-status>...</peer-configuration-status>
<lmi-statistics>...</lmi-statistics>
<lsi-traffic-statistics>...</lsi-traffic-statistics>
<stp-traffic-statistics>...</stp-traffic-statistics>
<chassis-queue-counters>...</chassis-queue-counters>
<ingress-queue-counters>...</ingress-queue-counters>
<otn-oc-information>...</otn-oc-information>
<otn-otu-information>...</otn-otu-information>
<otn-odu-information>...</otn-odu-information>
<ima-state>...</ima-state>

```
    <ima-group-information>...</ima-group-information>
    <ima-link-information>...</ima-link-information>
    <satop-information>...</satop-information>
    <cesopsn-information>...</cesopsn-information>
    <ima-group-properties>...</ima-group-properties>
    <ima-link-properties>...</ima-link-properties>
    <cos-information>...</cos-information>
    <physical-interface-cos-information>...</physical-interface-cos-information>
    <mlfr-uni-nni-traffic-statistics>...</mlfr-uni-nni-traffic-statistics>
    <interval-information>...</interval-information>
  </physical-interface>
</interface-information | interface-filter-information | interface-policer-information>
```

Description Information about a single physical interface.

Contents <active-alarms>—Media-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

<active-alarms-otn>—OTN-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

<active-defects>—Media-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

<active-defects-otn>—OTN-specific defects that can render the interface unable to pass packets. When a defect persists for a certain amount of time, it is promoted to an alarm. Based on the router configuration, an alarm can ring the red or yellow alarm bell on the router, or the red or yellow alarm LED on the craft interface.

<admin-status>—Desired state of the interface.

<alternate-physical-address>—Alternate physical address for this interface.

<atm-e3-framing>—Type of framing.

<atm-encapsulation>—Type of ATM encapsulation.

<atm-information>—Operational information and statistics for ATM interfaces.

<atm-line-build-out>—Line buildout.

<ber-threshold>—Bit error rate (BER) threshold for SONET interface.

<bpdu-error>—No documentation is available yet.

<cds1-information>—No documentation is available yet.

<cesopsn-information>—No documentation is available yet.

<chap-state>—State of the Challenge Handshake Authentication Protocol.

<chassis-queue-counters>—Chassis queue counter statistics.

<clocking>—Reference clock source.

<cos-information>—Information about class-of-service configuration.

<crc>—Frame checksum on the interface (either 16 or 32).

<ct3-information>—No documentation is available yet.

<current-physical-address>—Configured physical address for this interface.

<description>—Description of this interface.

<down-hold-time>—Down hold-time for this interface (milliseconds).

<ds0-bert-information>—DS0 BERT configuration and statistics.

<ds1-bert-information>—DS1 BERT configuration and statistics.

<ds1-crc-alarm-threshold>—DS1 CRC alarm thresholds.

<ds1-framing>—No documentation is available yet.

<ds3-bert-information>—DS3 BERT configuration and statistics.

<ds3-long-buildout>—No documentation is available yet.

<ds3-mode>—No documentation is available yet.

<dsl-information>—Operational information and statistics for ADSL interfaces.

<dsu-information>—DSU configuration and statistics.

<duplex>—Duplex at which the interface is running.

<e3-bert-information>—E3 BERT configuration and statistics.

<e3-framing>—No documentation is available yet.

<es-ifd-stats>—ES PIC statistics.

<ethernet-autonegotiation>—Ethernet autonegotiation information.

<ethernet-filter-statistics>—Ethernet filter statistics.

<ethernet-mac-statistics>—Ethernet MAC statistics.

<ethernet-pcs-statistics>—Ethernet PCS statistics.

<generation>—Generation number used to distinguish between successive instances of this interface.

<hardware-physical-address>—Hardware physical address for this interface.

<hdlc-information>—No documentation is available yet.

<if-auto-mdix>—Status of Auto MDIX.

<if-auto-negotiation>—Status of auto-negotiation.

<if-config-flags>—No documentation is available yet.

<if-device-flags>—No documentation is available yet.

<if-flow-control>—No documentation is available yet.

<if-media-flags>—No documentation is available yet.

<if-remote-fault>—Status of remote fault.

<if-speed-auto-negotiation>—Status of Speed auto-negotiation.

<if-type>—No documentation is available yet.

<if-unidirectional>—No documentation is available yet.

<ifd-cell-bundle-size>—Cell bundle size for physical interface.

<ifd-cell-bundle-timeout>—Cell bundle timeout for physical interface.

<ih-parent>—Controller parent.

<ima-group-information>—IMA group alarms.

<ima-group-properties>—No documentation is available yet.

<ima-link-information>—IMA link alarms.

<ima-link-properties>—No documentation is available yet.

<ima-state>—No documentation is available yet.

<ingress-queue-counters>—Ingress queue counter statistics.

<ingress-rate-limit>—Layer 2 rate limit on ingress traffic for the port.

<ingress-traffic-statistics>—Number and rate of bytes and packets received in the ingress side at Packet Forwarding Engine.

<input-error-count>—Sum of all input errors on this interface.

<input-error-list>—Input errors on this interface.

<interface-flapped>—Time when the interface last flapped.

<interval-information>—No documentation is available yet.

<keepalive-config>—Configured keepalive settings on this interface.

<keepalive-statistics>—Keepalive statistics for this interface.

<l2circuit-mode>—Indicates if the interface is in L2 circuit AAL5 or Cell mode.

<l2pt-error>—No documentation is available yet.

<lcp-state>—State of the Line Control Protocol.

<link-level-type>—Encapsulation being used on the physical interface.

<link-mode>—Link mode of the interface.

<link-partner-status>—Auto-negotiation status of link partner.

<link-type>—No documentation is available yet.

<links>—Aggregated SONET/SDH link information.

<lmi-dce-config>—Configured LMI DCE setting on this interface.

<lmi-dte-config>—Configured LMI DTE setting on this interface.

<lmi-statistics>—LMI statistics for an interface.

<local-index>—Local kernel index for this interface.

<local-info>—Auto-negotiation status of local partner.

<logical-interface>—Information about a single logical interface.

<loopback>—Whether loopback is enabled and the type of loopback.

<lsi-traffic-statistics>—Information about label-switched bytes and packets received on the physical interface.

<mac-database>—No documentation is available yet.

<max-speed>—Maximum speed at which interface can run.

<media-information>—Information about media alarms.

<media-state-information>—Media-specific state information.

<minimum-bandwidth-in-aggregate>—Minimum bandwidth needed for the bundle to be up.

<minimum-links-in-aggregate>—Minimum number of links needed for the bundle to be up.

<mlfr-uni-nni-bundle-options>—No documentation is available yet.

<mlfr-uni-nni-traffic-statistics>—No documentation is available yet.

<modem-information>—Operational information for MODEM interfaces.

<mtu>—MTU size on this interface.

<multilink-bundle-errors>—Multilink bundle errors.

<multilink-interface-errors>—No documentation is available yet.

<name>—Name of this item.

<ncp-information>—Network Control Protocol information.

<nxds0-information>—No documentation is available yet.

<oper-status>—Current operational state of the interface.

<optics-properties>—Optics properties.

<otn-errors>—No documentation is available yet.

<otn-fec-mode>—No documentation is available yet.

<otn-fec-statistics>—No documentation is available yet.

<otn-oc-information>—No documentation is available yet.

<otn-odu-information>—No documentation is available yet.

<otn-otn-loopback>—No documentation is available yet.

<otn-otn-mode>—No documentation is available yet.

<otn-otn-rate>—No documentation is available yet.

<otn-otu-information>—No documentation is available yet.

<otn-rx-overhead>—No documentation is available yet.

<otn-rx-tti>—No documentation is available yet.

<otn-stats-counter>—No documentation is available yet.

<otn-tx-overhead>—No documentation is available yet.

<otn-tx-tti>—No documentation is available yet.

<output-error-count>—Sum of all output errors on this interface.

<output-error-list>—Output errors on this interface.

<pap-state>—State of the Password Authentication Protocol.

<payload-scrambler>—Whether payload scrambling is enabled.

<peer-configuration-status>—Nonmatching DCE end DLCIs.

<pfe-information>—Information about Packet Forwarding Engine configuration.

<physical-information>—No documentation is available yet.

<physical-interface-cos-information>—Physical interface class-of-service parameters.

<physical-mode>—Physical mode.

<ppp-flags>—Additional flags applicable to PPP encapsulation.

<preserve-interface>—Whether interface preservation is enabled or disabled.

<preserve-interface-statistics>—Interface switchover statistics.

<queue-counters>—Queue counter statistics.

<satop-information>—No documentation is available yet.

<serial-information>—Serial interfaces information and statistics.

<shared-interface-physical-interface>—Shared interface physical interface.

<shdsl-information>—Operational information and statistics for SHDSL interfaces.

<snmp-index>—SNMP ifIndex for this interface.

<sonet-errors>—No documentation is available yet.

<sonet-line-information>—No documentation is available yet.

<sonet-loopback>—SONET loopback setting on channelized OC12 interface.

<sonet-mode>—Whether the interface is in SDH or SONET mode.

<sonet-path-information>—No documentation is available yet.

<sonet-payload-pointer-curptr>—Value of the SONET/SDH payload pointer, derived from the H1 and H2 overhead bytes.

<sonet-payload-pointer-information>—No documentation is available yet.

<sonet-payload-pointer-newptr-ndf-count>—Number of times a new payload pointer was created with the New Data Found flag set.

<sonet-payload-pointer-ptrdec-count>—Number of times the value of the SONET/SDH payload pointer had negative justification.

<sonet-payload-pointer-ptrinc-count>—Number of times the value of the SONET/SDH payload pointer had positive justification.

<sonet-physical-information>—No documentation is available yet.

<sonet-rx-overhead>—No documentation is available yet.

<sonet-rx-path-trace>—Received SONET path trace.

<sonet-section-information>—No documentation is available yet.

<sonet-tx-overhead>—No documentation is available yet.

<sonet-tx-path-trace>—Transmitted SONET path trace.

<sonet-vt-information>—No documentation is available yet.

<source-filtering>—Whether source filtering is enabled or disabled.

<speed>—Speed at which the interface is running.

<statistics-cleared>—Time when statistics were last cleared.

<stp-traffic-statistics>—Information about dropped bytes and packets due to STP state.

<traffic-statistics>—Number and rate of bytes and packets received and transmitted on the physical interface.

<up-hold-time>—Up hold-time for this interface (milliseconds).

<virtual-path-information>—Operational information and statistics for a virtual path.

<physical-interface-cos-information>

Usage

```
<physical-interface>
  <physical-interface-cos-information>
    <physical-interface-cos-hw-max-queues>physical-interface-cos-hw-max-queues
                </physical-interface-cos-hw-max-queues>
    <physical-interface-cos-use-max-queues>physical-interface-cos-use-max-queues
                </physical-interface-cos-use-max-queues>
    <physical-interface-schedulers>physical-interface-schedulers
                </physical-interface-schedulers>
    <physical-interface-red-buffer-occupancy>...
                </physical-interface-red-buffer-occupancy>
  </physical-interface-cos-information>
</physical-interface>
```

Description Physical interface class-of-service parameters.

Contents <physical-interface-cos-hw-max-queues>—Maximum number of class-of-service queues supported by the hardware.

<physical-interface-cos-use-max-queues>—Maximum number of usable class-of-service queues.

<physical-interface-red-buffer-occupancy>—Type of buffer occupancy information used for performing random early drop on the interface.

<physical-interface-schedulers>—Schedulers allocated to this interface.

<physical-interface-red-buffer-occupancy>

Usage
```
<physical-interface-cos-information>
  <physical-interface-red-buffer-occupancy>
    <instant-usage-weight-exponent>instant-usage-weight-exponent
                    </instant-usage-weight-exponent>
  </physical-interface-red-buffer-occupancy>
</physical-interface-cos-information>
```

Description Type of buffer occupancy information used for performing random early drop on the interface.

Contents <instant-usage-weight-exponent>—Weight used for instant buffer usage information for computing buffer occupancy expressed as a negative exponent of 2.

<plcp-defects>

Usage
```
<atm-information>
  <plcp-defects>
    <media-alarm>...</media-alarm>
  </plcp-defects>
</atm-information>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<plcp-statistics>

Usage
```
<atm-information>
  <plcp-statistics>
    <ferr-count>ferr-count</ferr-count>
    <ferr-seconds>ferr-seconds</ferr-seconds>
    <bipe-count>bipe-count</bipe-count>
    <bipe-seconds>bipe-seconds</bipe-seconds>
    <febe-count>febe-count</febe-count>
    <febe-seconds>febe-seconds</febe-seconds>
  </plcp-statistics>
</atm-information>
```

Description No documentation is available yet.

Contents <bipe-count>—No documentation is available yet.

<bipe-seconds>—No documentation is available yet.

<febe-count>—No documentation is available yet.

<febe-seconds>—No documentation is available yet.

<ferr-count>—No documentation is available yet.

<ferr-seconds>—No documentation is available yet.

<policer-information>

Usage
```
<logical-interface | address-family>
  <policer-information>
    <policer-family>policer-family</policer-family>
    <policer-input>policer-input</policer-input>
    <policer-output>policer-output</policer-output>
  </policer-information>
</logical-interface | address-family>
```

Description Interface policer information.

Contents <policer-family>—Protocol family of the policer.

<policer-input>—Name of the input policer.

<policer-output>—Name of the output policer.

<ppp-flags>

Usage
```
<physical-interface | logical-interface>
  <ppp-flags>
    <iff-ppp-flags-acfc/>
    <iff-ppp-flags-pfc/>
  </ppp-flags>
</physical-interface | logical-interface>
```

Description Additional flags applicable to PPP encapsulation.

Contents <iff-ppp-flags-acfc>—PPP Address/Control field compression is enabled.

<iff-ppp-flags-pfc>—PPP Protocol field compression is enabled.

<ppp-parameters>

Usage
```
<logical-interface>
  <ppp-parameters>
    <lcp-restart-timer>lcp-restart-timer</lcp-restart-timer>
    <ncp-restart-timer>ncp-restart-timer</ncp-restart-timer>
    <termination-requests>termination-requests</termination-requests>
    <loopback-clear-timer>loopback-clear-timer</loopback-clear-timer>
  </ppp-parameters>
</logical-interface>
```

Description PPP parameters.

Contents <lcp-restart-timer>—LCP restart timer (milliseconds).

<loopback-clear-timer>—PPP loopback clear timer (seconds).

<ncp-restart-timer>—NCP restart timer (milliseconds).

<termination-requests>—Whether PPP termination requests are sent.

<pppoe-information>

Usage
```
<logical-interface>
  <pppoe-information>
    <pppoe-interface>...</pppoe-interface>
  </pppoe-information>
</logical-interface>
```

Description PPPoE information.

Contents <pppoe-interface>—No documentation is available yet.

<pppoe-interface>

Usage

```
<pppoe-information>
  <pppoe-interface>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
    <underlying-interface-name>underlying-interface-name
                </underlying-interface-name>
    <underlying-interface-index>underlying-interface-index
                </underlying-interface-index>
    <state>state</state>
    <session-id>session-id</session-id>
    <ac-name-config>ac-name-config</ac-name-config>
    <ac-name-session>ac-name-session</ac-name-session>
    <service-name>service-name</service-name>
    <remote-mac>remote-mac</remote-mac>
    <auto-reconnect>auto-reconnect</auto-reconnect>
    <idle-timeout>idle-timeout</idle-timeout>
    <session-uptime>session-uptime</session-uptime>
    <dynamic-interface-bandwidth>dynamic-interface-bandwidth
                </dynamic-interface-bandwidth>
    <padm-motm>padm-motm</padm-motm>
    <padm-hurl>padm-hurl</padm-hurl>
  </pppoe-interface>
</pppoe-information>
```

Description No documentation is available yet.

Contents <ac-name-config>—Configured AC name.

<ac-name-session>—Session AC name.

<auto-reconnect>—Autoreconnect timeout.

<dynamic-interface-bandwidth>—Dynamic interface bandwidth.

<idle-timeout>—Idle timeout.

<interface-index>—Index.

<interface-name>—Interface name.

<padm-hurl>—PADM HTTP URL tag.

<padm-motm>—PADM Message of the Moment tag.

<remote-mac>—Remote MAC address.

<service-name>—Service name.

<session-id>—Session ID.

<session-uptime>—Duration for which the session has been up.

<state>—State.

<underlying-interface-index>—Underlying interface index.

<underlying-interface-name>—Underlying interface name.

<preserve-interface-statistics>

Usage

```
<physical-interface>
  <preserve-interface-statistics>
    <if-switchover-total>if-switchover-total</if-switchover-total>
    <if-switchover-last-attempt>if-switchover-last-attempt
                </if-switchover-last-attempt>
    <if-switchover-last-time>if-switchover-last-time</if-switchover-last-time>
    <if-switchover-min-max-avg-time>if-switchover-min-max-avg-time
                </if-switchover-min-max-avg-time>
  </preserve-interface-statistics>
</physical-interface>
```

Description Interface switchover statistics.

Contents <if-switchover-last-attempt>—Interface on which the last switchover was attempted.

<if-switchover-last-time>—Time at which last interface switchover was attempted.

<if-switchover-min-max-avg-time>—Minimum, maximum and average interface switchover time.

<if-switchover-total>—Total number of interface switchovers.

<queue>

Usage <queue-counters | ingress-queue-counters | chassis-queue-counters>

<queue>

<queue-number>*queue-number*</queue-number>
<forwarding-class-name>*forwarding-class-name*</forwarding-class-name>
<queue-counters-queued-packets>*queue-counters-queued-packets*
</queue-counters-queued-packets>
<queue-counters-queued-packets-na>*queue-counters-queued-packets-na*
</queue-counters-queued-packets-na>
<queue-counters-queued-bytes-na>*queue-counters-queued-bytes-na*
</queue-counters-queued-bytes-na>
<queue-counters-queued-bytes>*queue-counters-queued-bytes*
</queue-counters-queued-bytes>
<queue-counters-queued-packets-rate>*queue-counters-queued-packets-rate*
</queue-counters-queued-packets-rate>
<queue-counters-queued-bytes-rate>*queue-counters-queued-bytes-rate*
</queue-counters-queued-bytes-rate>
<queue-counters-trans-packets>*queue-counters-trans-packets*
</queue-counters-trans-packets>
<queue-counters-trans-bytes>*queue-counters-trans-bytes*
</queue-counters-trans-bytes>
<queue-counters-trans-packets-rate>*queue-counters-trans-packets-rate*
</queue-counters-trans-packets-rate>
<queue-counters-trans-bytes-rate>*queue-counters-trans-bytes-rate*
</queue-counters-trans-bytes-rate>
<queue-counters-tail-drop-packets>*queue-counters-tail-drop-packets*
</queue-counters-tail-drop-packets>
<queue-counters-tail-drop-packets-rate>*queue-counters-tail-drop-packets-rate*
</queue-counters-tail-drop-packets-rate>
<queue-counters-tail-drop-packets-na>*queue-counters-tail-drop-packets-na*
</queue-counters-tail-drop-packets-na>
<queue-counters-rate-limit-drop-packets>*queue-counters-rate-limit-drop-packets*
</queue-counters-rate-limit-drop-packets>
<queue-counters-rate-limit-drop-packets-rate>*queue-cntrs-rate-limit-drp-packets-rate*
</queue-counters-rate-limit-drop-packets-rate>
<queue-counters-rate-limit-drop-packets-na>*queue-counters-rate-limit-drp-pkets-na*
</queue-counters-rate-limit-drop-packets-na>
<queue-counters-rate-limit-drop-bytes>*queue-counters-rate-limit-drop-bytes*
</queue-counters-rate-limit-drop-bytes>
<queue-counters-rate-limit-drop-bytes-rate>*queue-counters-rate-limit-drop-bytes-rate*
</queue-counters-rate-limit-drop-bytes-rate>
<queue-counters-rate-limit-drop-bytes-na>*queue-counters-rate-limit-drop-bytes-na*
</queue-counters-rate-limit-drop-bytes-na>
<queue-counters-red-packets-na>*queue-counters-red-packets-na*
</queue-counters-red-packets-na>
<queue-counters-red-packets>*queue-counters-red-packets*
</queue-counters-red-packets>
<queue-counters-red-bytes-na>*queue-counters-red-bytes-na*
</queue-counters-red-bytes-na>
<queue-counters-red-bytes>*queue-counters-red-bytes*</queue-counters-red-bytes>
<queue-counters-red-packets-rate>*queue-counters-red-packets-rate*
</queue-counters-red-packets-rate>
<queue-counters-red-bytes-rate>*queue-counters-red-bytes-rate*

```
                </queue-counters-red-bytes-rate>
<queue-counters-red-packets-ln>queue-counters-red-packets-ln
                </queue-counters-red-packets-ln>
<queue-counters-red-bytes-ln>queue-counters-red-bytes-ln
                </queue-counters-red-bytes-ln>
<queue-counters-red-packets-rate-ln>queue-counters-red-packets-rate-ln
                </queue-counters-red-packets-rate-ln>
<queue-counters-red-bytes-rate-ln>queue-counters-red-bytes-rate-ln
                </queue-counters-red-bytes-rate-ln>
<queue-counters-red-packets-lt>queue-counters-red-packets-lt
                </queue-counters-red-packets-lt>
<queue-counters-red-bytes-lt>queue-counters-red-bytes-lt
                </queue-counters-red-bytes-lt>
<queue-counters-red-packets-rate-lt>queue-counters-red-packets-rate-lt
                </queue-counters-red-packets-rate-lt>
<queue-counters-red-bytes-rate-lt>queue-counters-red-bytes-rate-lt
                </queue-counters-red-bytes-rate-lt>
<queue-counters-red-packets-ht>queue-counters-red-packets-ht
                </queue-counters-red-packets-ht>
<queue-counters-red-bytes-ht>queue-counters-red-bytes-ht
                </queue-counters-red-bytes-ht>
<queue-counters-red-packets-rate-ht>queue-counters-red-packets-rate-ht
                </queue-counters-red-packets-rate-ht>
<queue-counters-red-bytes-rate-ht>queue-counters-red-bytes-rate-ht
                </queue-counters-red-bytes-rate-ht>
<queue-counters-red-packets-hn>queue-counters-red-packets-hn
                </queue-counters-red-packets-hn>
<queue-counters-red-bytes-hn>queue-counters-red-bytes-hn
                </queue-counters-red-bytes-hn>
<queue-counters-red-packets-rate-hn>queue-counters-red-packets-rate-hn
                </queue-counters-red-packets-rate-hn>
<queue-counters-red-bytes-rate-hn>queue-counters-red-bytes-rate-hn
                </queue-counters-red-bytes-rate-hn>
<queue-counters-red-packets-low>queue-counters-red-packets-low
                </queue-counters-red-packets-low>
<queue-counters-red-bytes-low>queue-counters-red-bytes-low
                </queue-counters-red-bytes-low>
<queue-counters-red-packets-rate-low>queue-counters-red-packets-rate-low
                </queue-counters-red-packets-rate-low>
<queue-counters-red-bytes-rate-low>queue-counters-red-bytes-rate-low
                </queue-counters-red-bytes-rate-low>
<queue-counters-red-packets-medium-low>queue-counters-red-packets-medium-low
                </queue-counters-red-packets-medium-low>
<queue-counters-red-bytes-medium-low>queue-counters-red-bytes-medium-low
                </queue-counters-red-bytes-medium-low>
<queue-counters-red-packets-rate-medium-low>queue-cntrs-red-pkts-rate-med-low
                </queue-counters-red-packets-rate-medium-low>
<queue-counters-red-bytes-rate-medium-low>queue-cntrs-red-bytes-rate-medium-low
                </queue-counters-red-bytes-rate-medium-low>
<queue-counters-red-packets-medium-high>queue-cntrs-red-packets-medium-high
                </queue-counters-red-packets-medium-high>
<queue-counters-red-bytes-medium-high>queue-counters-red-bytes-medium-high
                </queue-counters-red-bytes-medium-high>
```

```
<queue-counters-red-packets-rate-medium-high>queue-cntrs-red-pkts-rate-medium-high
                </queue-counters-red-packets-rate-medium-high>
    <queue-counters-red-bytes-rate-medium-high>queue-cnters-red-bytes-rate-med-high
                </queue-counters-red-bytes-rate-medium-high>
    <queue-counters-red-packets-medium>queue-counters-red-packets-medium
                </queue-counters-red-packets-medium>
    <queue-counters-red-bytes-medium>queue-counters-red-bytes-medium
                </queue-counters-red-bytes-medium>
    <queue-counters-red-packets-rate-medium>queue-cnters-red-packets-rate-medium
                </queue-counters-red-packets-rate-medium>
    <queue-counters-red-bytes-rate-medium>queue-counters-red-bytes-rate-medium
                </queue-counters-red-bytes-rate-medium>
    <queue-counters-red-packets-high>queue-counters-red-packets-high
                </queue-counters-red-packets-high>
    <queue-counters-red-bytes-high>queue-counters-red-bytes-high
                </queue-counters-red-bytes-high>
    <queue-counters-red-packets-rate-high>queue-counters-red-packets-rate-high
                </queue-counters-red-packets-rate-high>
    <queue-counters-red-bytes-rate-high>queue-counters-red-bytes-rate-high
                </queue-counters-red-bytes-rate-high>
  </queue>
</queue-counters | ingress-queue-counters | chassis-queue-counters>
```

Description Counters for a single queue.

Contents <forwarding-class-name>—Forwarding class name associated with queue.

<queue-counters-queued-bytes>—Queued bytes count.

<queue-counters-queued-bytes-na>—Queued bytes not available.

<queue-counters-queued-bytes-rate>—Rate at which bytes are queued.

<queue-counters-queued-packets>—Queued packet count.

<queue-counters-queued-packets-na>—Queued packets not available.

<queue-counters-queued-packets-rate>—Rate at which packets are queued.

<queue-counters-rate-limit-drop-bytes>—Number of bytes dropped at the tail of the queue.

<queue-counters-rate-limit-drop-bytes-na>—Number of bytes dropped due to tail drop not available.

<queue-counters-rate-limit-drop-bytes-rate>—Rate at which bytes are dropped at the tail of the queue.

<queue-counters-rate-limit-drop-packets>—Number of packets dropped by rate-limit for the queue.

<queue-counters-rate-limit-drop-packets-na>—Number of packets dropped due to rate-limit drop not available.

<queue-counters-rate-limit-drop-packets-rate>—Rate at which packets are dropped by

rate-limit for the queue.

<queue-counters-red-bytes>—Number of bytes dropped due to RED.

<queue-counters-red-bytes-high>—Number of RED dropped high-loss bytes.

<queue-counters-red-bytes-hn>—Number of RED dropped high-loss, non-TCP bytes.

<queue-counters-red-bytes-ht>—Number of RED dropped high-loss, TCP bytes.

<queue-counters-red-bytes-ln>—Number of RED dropped low-loss, non-TCP bytes.

<queue-counters-red-bytes-low>—Number of RED dropped low-loss bytes.

<queue-counters-red-bytes-lt>—Number of RED dropped low-loss, TCP bytes.

<queue-counters-red-bytes-medium>—Number of RED dropped medium-loss bytes.

<queue-counters-red-bytes-medium-high>—Number of RED dropped medium-high-loss bytes.

<queue-counters-red-bytes-medium-low>—Number of RED dropped medium-low-loss bytes.

<queue-counters-red-bytes-na>—Number of bytes dropped due to RED not available.

<queue-counters-red-bytes-rate>—Rate at which bytes are dropped due to RED.

<queue-counters-red-bytes-rate-high>—RED drop rate for high-loss bytes.

<queue-counters-red-bytes-rate-hn>—RED drop rate for high-loss, non-TCP bytes.

<queue-counters-red-bytes-rate-ht>—RED drop rate for high-loss, TCP bytes.

<queue-counters-red-bytes-rate-ln>—RED drop rate for low-loss, non-TCP bytes.

<queue-counters-red-bytes-rate-low>—RED drop rate for low-loss bytes.

<queue-counters-red-bytes-rate-lt>—RED drop rate for low-loss, TCP bytes.

<queue-counters-red-bytes-rate-medium>—RED drop rate for medium-loss bytes.

<queue-counters-red-bytes-rate-medium-high>—RED drop rate for medium-high-loss bytes.

<queue-counters-red-bytes-rate-medium-low>—RED drop rate for medium-low-loss bytes.

<queue-counters-red-packets>—Number of packets dropped due to RED.

<queue-counters-red-packets-high>—Number of RED dropped high-loss packets.

<queue-counters-red-packets-hn>—Number of RED dropped high-loss, non-TCP packets.

<queue-counters-red-packets-ht>—Number of RED dropped high-loss, TCP packets.

<queue-counters-red-packets-ln>—Number of RED dropped low-loss, non-TCP packets.

<queue-counters-red-packets-low>—Number of RED dropped low-loss packets.

<queue-counters-red-packets-lt>—Number of RED dropped of low-loss, TCP packets.

<queue-counters-red-packets-medium>—Number of RED dropped medium-loss packets.

<queue-counters-red-packets-medium-high>—Number of RED dropped medium-high-loss packets.

<queue-counters-red-packets-medium-low>—Number of RED dropped medium-low-loss packets.

<queue-counters-red-packets-na>—Number of packets dropped due to RED not available.

<queue-counters-red-packets-rate>—Rate at which packets are dropped due to RED.

<queue-counters-red-packets-rate-high>—RED drop rate for high-loss packets.

<queue-counters-red-packets-rate-hn>—RED drop rate for high-loss, non-TCP packets.

<queue-counters-red-packets-rate-ht>—RED drop rate for high-loss, TCP packets.

<queue-counters-red-packets-rate-ln>—RED drop rate for low-loss, non-TCP packets.

<queue-counters-red-packets-rate-low>—RED drop rate for low-loss packets.

<queue-counters-red-packets-rate-lt>—RED drop rate for low-loss, TCP packets.

<queue-counters-red-packets-rate-medium>—RED drop rate for medium-loss packets.

<queue-counters-red-packets-rate-medium-high>—RED drop rate for medium-high-loss packets.

<queue-counters-red-packets-rate-medium-low>—RED drop rate for medium-low-loss packets.

<queue-counters-tail-drop-packets>—Number of packets dropped at the tail of the queue.

<queue-counters-tail-drop-packets-na>—Number of packets dropped due to tail drop not available.

<queue-counters-tail-drop-packets-rate>—Rate at which packets are dropped at tail of queue.

<queue-counters-trans-bytes>—Total number of transmitted bytes.

<queue-counters-trans-bytes-rate>—Rate at which bytes are transmitted.

<queue-counters-trans-packets>—Total number of transmitted packets.

<queue-counters-trans-packets-rate>—Rate at which packets are transmitted.

<queue-number>—Queue number.

<queue-counters>

Usage

```
<physical-interface | logical-interface | interface-set-queue-information>
  <queue-counters>
    <queue-counters-error-message>queue-counters-error-message
                  </queue-counters-error-message>
    <queue>...</queue>
    <interface-cos-short-summary>...</interface-cos-short-summary>
    <interface-cos-summary>...</interface-cos-summary>
  </queue-counters>
</physical-interface | logical-interface | interface-set-queue-information>
```

Description Queue counter statistics.

Contents <interface-cos-short-summary>—Summary of queue information on an interface.

<interface-cos-summary>—Summary of forwarding class and queue information on an interface.

<queue>—Counters for a single queue.

<queue-counters-error-message>—Queue statistics not available for this interface.

<resync-history>

Usage

```
<serial-information>
  <resync-history>
    <resync-counter>resync-counter</resync-counter>
    <resync-timestamp>resync-timestamp</resync-timestamp>
  </resync-history>
</serial-information>
```

Description No documentation is available yet.

Contents <resync-counter>—No documentation is available yet.

<resync-timestamp>—No documentation is available yet.

<route-rpf-statistics>

Usage

```
<address-family>
  <route-rpf-statistics>
    <route-rpf-packets>route-rpf-packets</route-rpf-packets>
    <route-rpf-bytes>route-rpf-bytes</route-rpf-bytes>
  </route-rpf-statistics>
</address-family>
```

Description Unicast reverse-path forwarding (RPF) statistics.

Contents <route-rpf-bytes>—Number of bytes that have failed the RPF check.

<route-rpf-packets>—Number of packets that have failed the RPF check.

<satop-information>

Usage

```
<physical-interface>
  <satop-information>
    <ce-payload-size>ce-payload-size</ce-payload-size>
    <ce-idle-pattern>ce-idle-pattern</ce-idle-pattern>
    <ce-octet-aligned>ce-octet-aligned</ce-octet-aligned>
    <ce-jitter-buffer-packets>ce-jitter-buffer-packets</ce-jitter-buffer-packets>
    <ce-jitter-buffer-latency>ce-jitter-buffer-latency</ce-jitter-buffer-latency>
    <ce-jitter-buffer-auto-adjust>ce-jitter-buffer-auto-adjust
                </ce-jitter-buffer-auto-adjust>

<ce-excessive-packet-loss-rate-sample-period>ce-excessive-packet-loss-rate-sample-peri
od
                </ce-excessive-packet-loss-rate-sample-period>
    <ce-excessive-packet-loss-rate-threshold>ce-excessive-packet-loss-rate-threshold
                </ce-excessive-packet-loss-rate-threshold>
  </satop-information>
</physical-interface>
```

Description No documentation is available yet.

Contents <ce-excessive-packet-loss-rate-sample-period>—No documentation is available yet.

<ce-excessive-packet-loss-rate-threshold>—No documentation is available yet.

<ce-idle-pattern>—No documentation is available yet.

<ce-jitter-buffer-auto-adjust>—No documentation is available yet.

<ce-jitter-buffer-latency>—No documentation is available yet.

<ce-jitter-buffer-packets>—No documentation is available yet.

<ce-octet-aligned>—No documentation is available yet.

<ce-payload-size>—No documentation is available yet.

<serial-encoding>

Usage

```
<serial-information>
  <serial-encoding>
    <serial-encoding-conf>serial-encoding-conf</serial-encoding-conf>
  </serial-encoding>
</serial-information>
```

Description No documentation is available yet.

Contents <serial-encoding-conf>—No documentation is available yet.

<serial-information>

Usage

```
<physical-interface>
  <serial-information>
    <line-protocol>...</line-protocol>
    <resync-history>...</resync-history>
    <clocking-mode>...</clocking-mode>
    <clocking-rate>...</clocking-rate>
    <serial-encoding>...</serial-encoding>
    <dtr-circuit>...</dtr-circuit>
    <eia530-signal-polarity>...</eia530-signal-polarity>
    <x21-signal-polarity>...</x21-signal-polarity>
    <serial-loopback>...</serial-loopback>
    <tx-clock>...</tx-clock>
    <data-signal>...</data-signal>
    <eia530-control-signal>...</eia530-control-signal>
    <x21-control-signal>...</x21-control-signal>
    <dce-loopback-override>dce-loopback-override</dce-loopback-override>
  </serial-information>
</physical-interface>
```

Description Serial interfaces information and statistics.

Contents <clocking-mode>—No documentation is available yet.

<clocking-rate>—No documentation is available yet.

<data-signal>—No documentation is available yet.

<dce-loopback-override>—No documentation is available yet.

<dtr-circuit>—No documentation is available yet.

<eia530-control-signal>—No documentation is available yet.

<eia530-signal-polarity>—No documentation is available yet.

<line-protocol>—No documentation is available yet.

<resync-history>—No documentation is available yet.

<serial-encoding>—No documentation is available yet.

<serial-loopback>—No documentation is available yet.

<tx-clock>—No documentation is available yet.

<x21-control-signal>—No documentation is available yet.

<x21-signal-polarity>—No documentation is available yet.

<serial-loopback>

Usage
```
<serial-information>
  <serial-loopback>
    <serial-loopback-mode>serial-loopback-mode</serial-loopback-mode>
  </serial-loopback>
</serial-information>
```

Description No documentation is available yet.

Contents <serial-loopback-mode>—No documentation is available yet.

<shared-interface-information>

Usage
```
<logical-interface>
  <shared-interface-information>
    <shared-interface-logical-interface>...</shared-interface-logical-interface>
  </shared-interface-information>
</logical-interface>
```

Description Shared interface information.

Contents <shared-interface-logical-interface>—Shared interface logical interface.

<shared-interface-logical-interface>

Usage
```
<shared-interface-information>
  <shared-interface-logical-interface>
    <peer-interface-name>peer-interface-name</peer-interface-name>
    <interface-shared-with>interface-shared-with</interface-shared-with>
    <rx-fe>rx-fe</rx-fe>
    <rx-nhid>rx-nhid</rx-nhid>
    <tx-fe>tx-fe</tx-fe>
    <tx-nhid>tx-nhid</tx-nhid>
  </shared-interface-logical-interface>
</shared-interface-information>
```

Description Shared interface logical interface.

Contents <interface-shared-with>—Logical interface owner.

<peer-interface-name>—Peer interface name.

<rx-fe>—Rx tunnel token forwarding element.

<rx-nhid>—Rx tunnel token next hop index.

<tx-fe>—Tx tunnel token forwarding element.

<tx-nhid>—Tx tunnel token next hop index.

<shared-interface-physical-interface>

Usage

```
<physical-interface>
  <shared-interface-physical-interface>
    <ownership>ownership</ownership>
  </shared-interface-physical-interface>
</physical-interface>
```

Description Shared interface physical interface.

Contents <ownership>—Shared interface physical interface ownership.

<shdsl-information>

Usage

```
<physical-interface>
  <shdsl-information>
    <shdsl-line-termination>shdsl-line-termination</shdsl-line-termination>
    <shdsl-annex>shdsl-annex</shdsl-annex>
    <shdsl-line-mode>shdsl-line-mode</shdsl-line-mode>
    <shdsl-modem-status>shdsl-modem-status</shdsl-modem-status>
    <shdsl-bit-rate>shdsl-bit-rate</shdsl-bit-rate>
    <shdsl-last-fail-reason>shdsl-last-fail-reason</shdsl-last-fail-reason>
    <shdsl-last-fail-code>shdsl-last-fail-code</shdsl-last-fail-code>
    <shdsl-framer-mode>shdsl-framer-mode</shdsl-framer-mode>
    <shdsl-dying-gasp>shdsl-dying-gasp</shdsl-dying-gasp>
    <shdsl-framer-sync-status>shdsl-framer-sync-status</shdsl-framer-sync-status>
    <shdsl-chipset-version>shdsl-chipset-version</shdsl-chipset-version>
    <shdsl-firmware-version>shdsl-firmware-version</shdsl-firmware-version>
    <shdsl-statistics>...</shdsl-statistics>
  </shdsl-information>
</physical-interface>
```

Description Operational information and statistics for SHDSL interfaces.

Contents <shdsl-annex>—Type of SHDSL annex.

<shdsl-bit-rate>—Actual line rate.

<shdsl-chipset-version>—Version number for the DSP/framer chip.

<shdsl-dying-gasp>—Dying gasp is enabled or disabled.

<shdsl-firmware-version>—Transreceiver firmware release number.

<shdsl-framer-mode>—Framer mode used.

<shdsl-framer-sync-status>—Framer synchronization status.

<shdsl-last-fail-code>—Last line-open failure code.

<shdsl-last-fail-reason>—Reason for last line-open failure.

<shdsl-line-mode>—Two or four wire mode.

<shdsl-line-termination>—Line termination remote or central.

<shdsl-modem-status>—Status of the SHDSL modem.

<shdsl-statistics>—No documentation is available yet.

<shdsl-statistics>

Usage

```
<shdsl-information>
  <shdsl-statistics>
    <shdsl-loop-attenuation>shdsl-loop-attenuation</shdsl-loop-attenuation>
    <shdsl-transmit-power>shdsl-transmit-power</shdsl-transmit-power>
    <shdsl-receiver-gain>shdsl-receiver-gain</shdsl-receiver-gain>
    <shdsl-snr-sampling>shdsl-snr-sampling</shdsl-snr-sampling>
    <shdsl-rx-cells>shdsl-rx-cells</shdsl-rx-cells>
    <shdsl-tx-cells>shdsl-tx-cells</shdsl-tx-cells>
    <shdsl-crc>shdsl-crc</shdsl-crc>
    <shdsl-sega>shdsl-sega</shdsl-sega>
    <shdsl-losw>shdsl-losw</shdsl-losw>
    <shdsl-hec>shdsl-hec</shdsl-hec>
    <shdsl-cell-drop>shdsl-cell-drop</shdsl-cell-drop>
  </shdsl-statistics>
</shdsl-information>
```

Description No documentation is available yet.

Contents <shdsl-cell-drop>—Cells dropped because of errors.

<shdsl-crc>—Number of CRC errors.

<shdsl-hec>—Header error check errors.

<shdsl-loop-attenuation>—An estimate of the loop attenuation.

<shdsl-losw>—Number of LOSW errors.

<shdsl-receiver-gain>—Total receiver gain.

<shdsl-rx-cells>—Total ATM cells received.

<shdsl-sega>—Number of SEGA errors.

<shdsl-snr-sampling>—Received signal to noise ratio.

<shdsl-transmit-power>—Nominal transmit power.

<shdsl-tx-cells>—Total ATM cells transmitted.

<sonet-errors>

Usage

```
<physical-interface | link-entry>
  <sonet-errors>
    <media-alarm>...</media-alarm>
  </sonet-errors>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<sonet-line-information>

Usage
```
<physical-interface | link-entry>
  <sonet-line-information>
    <media-alarm>...</media-alarm>
  </sonet-line-information>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<sonet-path-information>

Usage
```
<physical-interface | link-entry>
  <sonet-path-information>
    <media-alarm>...</media-alarm>
  </sonet-path-information>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<sonet-payload-pointer-information>

Usage
```
<physical-interface | link-entry>
  <sonet-payload-pointer-information>
    <sonet-payload-pointer-curptr>sonet-payload-pointer-curptr
            </sonet-payload-pointer-curptr>
    <sonet-payload-pointer-ptrinc-count>sonet-payload-pointer-ptrinc-count
            </sonet-payload-pointer-ptrinc-count>
    <sonet-payload-pointer-ptrdec-count>sonet-payload-pointer-ptrdec-count
            </sonet-payload-pointer-ptrdec-count>
    <sonet-payload-pointer-newptr-ndf-count>sonet-payload-pointer-newptr-ndf-count
            </sonet-payload-pointer-newptr-ndf-count>
  </sonet-payload-pointer-information>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <sonet-payload-pointer-curptr>—Value of the SONET/SDH payload pointer, derived from the H1 and H2 overhead bytes.

<sonet-payload-pointer-newptr-ndf-count>—Number of times a new payload pointer was created with the New Data Found flag set.

<sonet-payload-pointer-ptrdec-count>—Number of times the value of the SONET/SDH payload pointer had negative justification.

<sonet-payload-pointer-ptrinc-count>—Number of times the value of the SONET/SDH payload pointer had positive justification.

<sonet-physical-information>

Usage
```
<physical-interface | link-entry>
  <sonet-physical-information>
    <media-alarm>...</media-alarm>
  </sonet-physical-information>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<sonet-section-information>

Usage
```
<physical-interface | link-entry>
  <sonet-section-information>
    <media-alarm>...</media-alarm>
  </sonet-section-information>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<sonet-vt-information>

Usage
```
<physical-interface | link-entry>
  <sonet-vt-information>
    <media-alarm>...</media-alarm>
  </sonet-vt-information>
</physical-interface | link-entry>
```

Description No documentation is available yet.

Contents <media-alarm>—No documentation is available yet.

<source-class>

Usage

```
<source-class-statistics>
  <source-class>
    <scu-class-name>scu-class-name</scu-class-name>
    <scu-class-packets>scu-class-packets</scu-class-packets>
    <scu-class-bytes>scu-class-bytes</scu-class-bytes>
    <scu-class-pps>scu-class-pps</scu-class-pps>
    <scu-class-bps>scu-class-bps</scu-class-bps>
  </source-class>
</source-class-statistics>
```

Description SCU statistics for a single class.

Contents <scu-class-bps>—Bit-per-seconds counted by SCU for this class.

<scu-class-bytes>—Number of bytes counted by SCU for this class.

<scu-class-name>—Name of SCU class.

<scu-class-packets>—Number of packets counted by SCU for this class.

<scu-class-pps>—Packet-per-seconds counted by SCU for this class.

<source-class-statistics>

Usage

```
<address-family>
  <source-class-statistics>
    <source-class>...</source-class>
  </source-class-statistics>
</address-family>
```

Description Source class usage (SCU) statistics.

Contents <source-class>—SCU statistics for a single class.

<stp-traffic-statistics>

Usage

```
<physical-interface>
  <stp-traffic-statistics>
    <stp-input-bytes-dropped>stp-input-bytes-dropped</stp-input-bytes-dropped>
    <stp-output-bytes-dropped>stp-output-bytes-dropped</stp-output-bytes-dropped>
    <stp-input-packets-dropped>stp-input-packets-dropped
                </stp-input-packets-dropped>
    <stp-output-packets-dropped>stp-output-packets-dropped
                </stp-output-packets-dropped>
  </stp-traffic-statistics>
</physical-interface>
```

Description Information about dropped bytes and packets due to STP state.

Contents <stp-input-bytes-dropped>—Drop statistics due to stp state at ingress in bytes.

<stp-input-packets-dropped>—Drop statistics due to stp state at ingress in packets.

<stp-output-bytes-dropped>—Drop statistics due to stp state at egress in bytes.

<stp-output-packets-dropped>—Drop statistics due to stp state at egress in packets.

<sub-interface-list>

Usage

```
<dialer-interface>
  <sub-interface-list>
    <sub-interface-name>sub-interface-name</sub-interface-name>
  </sub-interface-list>
</dialer-interface>
```

Description No documentation is available yet.

Contents <sub-interface-name>—Subordinate interface name.

<to-dce>

Usage

```
<eia530-control-signal>
  <to-dce>
    <dtr>dtr</dtr>
    <rts>rts</rts>
    <cts>cts</cts>
    <dcd>dcd</dcd>
    <dsr>dsr</dsr>
  </to-dce>
</eia530-control-signal>
```

Description No documentation is available yet.

Contents <cts>—No documentation is available yet.

<dcd>—No documentation is available yet.

<dsr>—No documentation is available yet.

<dtr>—No documentation is available yet.

<rts>—No documentation is available yet.

<to-dte>

Usage

```
<eia530-control-signal>
  <to-dte>
    <dtr>dtr</dtr>
    <rts>rts</rts>
    <cts>cts</cts>
    <dcd>dcd</dcd>
    <dsr>dsr</dsr>
  </to-dte>
</eia530-control-signal>
```

Description No documentation is available yet.

Contents <cts>—No documentation is available yet.

<dcd>—No documentation is available yet.

<dsr>—No documentation is available yet.

<dtr>—No documentation is available yet.

<rts>—No documentation is available yet.

<traffic-statistics>

Usage

```
<physical-interface | virtual-path-information | logical-interface |
virtual-circuit-information | interface-set>
  <traffic-statistics>
    <input-bytes>input-bytes</input-bytes>
    <output-bytes>output-bytes</output-bytes>
    <input-bps>input-bps</input-bps>
    <output-bps>output-bps</output-bps>
    <input-packets>input-packets</input-packets>
    <output-packets>output-packets</output-packets>
    <input-pps>input-pps</input-pps>
    <output-pps>output-pps</output-pps>
    <ipv6-transit-statistics>...</ipv6-transit-statistics>
  </traffic-statistics>
</physical-interface | virtual-path-information | logical-interface |
virtual-circuit-information | interface-set>
```

Description Number and rate of bytes and packets received and transmitted on the physical interface.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<ipv6-transit-statistics>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<output-pps>—No documentation is available yet.

<transit-traffic-statistics>

Usage

```
<logical-interface>
  <transit-traffic-statistics>
    <input-bytes>input-bytes</input-bytes>
    <output-bytes>output-bytes</output-bytes>
    <input-bps>input-bps</input-bps>
    <output-bps>output-bps</output-bps>
    <input-packets>input-packets</input-packets>
    <output-packets>output-packets</output-packets>
    <input-pps>input-pps</input-pps>
    <output-pps>output-pps</output-pps>
    <ipv6-transit-statistics>...</ipv6-transit-statistics>
  </transit-traffic-statistics>
</logical-interface>
```

Description Statistics for traffic passing through the router. When a burst of traffic is received, the value in the output packet rate field might briefly exceed the peak cell rate. The counter usually stabilizes in 1 second or less.

Contents <input-bps>—No documentation is available yet.

<input-bytes>—No documentation is available yet.

<input-packets>—No documentation is available yet.

<input-pps>—No documentation is available yet.

<ipv6-transit-statistics>—No documentation is available yet.

<output-bps>—No documentation is available yet.

<output-bytes>—No documentation is available yet.

<output-packets>—No documentation is available yet.

<output-pps>—No documentation is available yet.

<tx-clock>

Usage

```
<serial-information>
  <tx-clock>
    <tx-clock-mode>tx-clock-mode</tx-clock-mode>
  </tx-clock>
</serial-information>
```

Description No documentation is available yet.

Contents <tx-clock-mode>—No documentation is available yet.

<vci-range>

Usage

```
<virtual-circuit-information>
  <vci-range>
    <vpi>vpi</vpi>
    <start-vci>start-vci</start-vci>
    <end-vci>end-vci</end-vci>
  </vci-range>
</virtual-circuit-information>
```

Description ATM VCI range.

Contents <end-vci>—ATM VCI range's end value.

<start-vci>—ATM VCI range's start value.

<vpi>—Virtual path identifier.

<virtual-circuit-information>

Usage

```
<logical-interface>
  <virtual-circuit-information>
    <dlci-statistics>...</dlci-statistics>
    <vpi>vpi</vpi>
    <vci>vci</vci>
    <vci-range>...</vci-range>
    <trunk>trunk</trunk>
    <trunk-bandwidth>trunk-bandwidth</trunk-bandwidth>
    <dlci>dlci</dlci>
    <ifvc-flags>...</ifvc-flags>
    <ifvc-multipoint-destination>...</ifvc-multipoint-destination>
    <atm-tm-cbr/>
    <atm-tm-vbr/>
    <atm-tm-rtvbr/>
    <peak>peak</peak>
    <sustained>sustained</sustained>
    <burst>burst</burst>
    <cdvt>cdvt</cdvt>
    <queue-limit>queue-limit</queue-limit>
    <down-time>down-time</down-time>
    <last-down-time>last-down-time</last-down-time>
    <ifvc-epd>ifvc-epd</ifvc-epd>
    <ifvc-epd-plp0>ifvc-epd-plp0</ifvc-epd-plp0>
    <ifvc-epd-plp1>ifvc-epd-plp1</ifvc-epd-plp1>
    <ifvc-weight>ifvc-weight</ifvc-weight>
    <oam-parameters>...</oam-parameters>
    <oam-statistics>...</oam-statistics>
    <traffic-statistics>...</traffic-statistics>
    <atm-statistics>...</atm-statistics>
    <atm-cos-information>...</atm-cos-information>
    <in-arp-statistics>...</in-arp-statistics>
  </virtual-circuit-information>
</logical-interface>
```

Description Operational information and statistics for a virtual circuit.

Contents <atm-cos-information>—No documentation is available yet.

<atm-statistics>—No documentation is available yet.

<atm-tm-cbr>—Constant bit rate.

<atm-tm-rtvbr>—Real-time variable bit rate.

<atm-tm-vbr>—Variable bit rate.

<burst>—No documentation is available yet.

<cdvt>—No documentation is available yet.

<dlci>—No documentation is available yet.

<dlci-statistics>—DLCI statistics for an interface.

<down-time>—Total down time for this circuit.

<ifvc-epd>—Early packet discard threshold.

<ifvc-epd-plp0>—Early packet discard threshold for PLP 0.

<ifvc-epd-plp1>—Early packet discard threshold for PLP 1.

<ifvc-flags>—No documentation is available yet.

<ifvc-multipoint-destination>—No documentation is available yet.

<ifvc-weight>—Transmit weight.

<in-arp-statistics>—Container tag for ARP statistics.

<last-down-time>—Time elapsed since circuit last went down.

<oam-parameters>—No documentation is available yet.

<oam-statistics>—Container tag for OAM statistics.

<peak>—No documentation is available yet.

<queue-limit>—No documentation is available yet.

<sustained>—No documentation is available yet.

<traffic-statistics>—Number and rate of bytes and packets received and transmitted on the physical interface.

<trunk>—ATM trunk identifier.

<trunk-bandwidth>—ATM trunk bandwidth.

<vci>—Virtual circuit identifier.

<vci-range>—ATM VCI range.

<vpi>—Virtual path identifier.

<virtual-path-information>

Usage

```
<physical-interface>
  <virtual-path-information>
    <vpi>vpi</vpi>
    <ifvp-flags>...</ifvp-flags>
    <atm-tm-cbr/>
    <atm-tm-vbr/>
    <atm-tm-rtvbr/>
    <peak>peak</peak>
    <sustained>sustained</sustained>
    <burst>burst</burst>
    <cdvt>cdvt</cdvt>
    <queue-limit>queue-limit</queue-limit>
    <down-time>down-time</down-time>
    <last-down-time>last-down-time</last-down-time>
    <oam-parameters>...</oam-parameters>
    <oam-statistics>...</oam-statistics>
    <traffic-statistics>...</traffic-statistics>
  </virtual-path-information>
</physical-interface>
```

Description Operational information and statistics for a virtual path.

Contents

<atm-tm-cbr>—Constant bit rate.

<atm-tm-rtvbr>—Real-time variable bit rate.

<atm-tm-vbr>—Variable bit rate.

<burst>—No documentation is available yet.

<cdvt>—No documentation is available yet.

<down-time>—Total down time for this circuit.

<ifvp-flags>—No documentation is available yet.

<last-down-time>—Time elapsed since circuit last went down.

<oam-parameters>—No documentation is available yet.

<oam-statistics>—Container tag for OAM statistics.

<peak>—No documentation is available yet.

<queue-limit>—No documentation is available yet.

<sustained>—No documentation is available yet.

<traffic-statistics>—Number and rate of bytes and packets received and transmitted on the physical interface.

<vpi>—Virtual path identifier.

<watch-list>

Usage

```
<dialer-interface>
  <watch-list>
    <watch-route>watch-route</watch-route>
  </watch-list>
</dialer-interface>
```

Description No documentation is available yet.

Contents <watch-route>—Watch route.

<x21-control-signal>

Usage

```
<serial-information>
  <x21-control-signal>
    <rts>rts</rts>
    <cts>cts</cts>
  </x21-control-signal>
</serial-information>
```

Description No documentation is available yet.

Contents <cts>—No documentation is available yet.

<rts>—No documentation is available yet.

<x21-signal-polarity>

Usage

```
<serial-information>
  <x21-signal-polarity>
    <rts-polarity>rts-polarity</rts-polarity>
    <cts-polarity>cts-polarity</cts-polarity>
  </x21-signal-polarity>
</serial-information>
```

Description No documentation is available yet.

Contents <cts-polarity>—No documentation is available yet.

<rts-polarity>—No documentation is available yet.

Summary of IPSec Response Tags

This section lists JUNOS XML tags that contain operational information about IP Security (IPSec). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ipsec. To review the DTD for the tags, see "DTD for IPSec Response Tags" on page 2215.

<ah-statistics>

Usage

```
<ipsec-statistics>
  <ah-statistics>
    <ah-input-bytes>ah-input-bytes</ah-input-bytes>
    <ah-output-bytes>ah-output-bytes</ah-output-bytes>
    <ah-input-packets>ah-input-packets</ah-input-packets>
    <ah-output-packets>ah-output-packets</ah-output-packets>
  </ah-statistics>
</ipsec-statistics>
```

Description No documentation is available yet.

Contents <ah-input-bytes>—AH input bytes information.

<ah-input-packets>—AH input packets information.

<ah-output-bytes>—AH output bytes information.

<ah-output-packets>—AH output packets information.

<alternate-subject-list>

Usage

```
<x509-certificate-info | x509-certificate-cache-info>
  <alternate-subject-list>
    <alternate-subject>alternate-subject</alternate-subject>
  </alternate-subject-list>
</x509-certificate-info | x509-certificate-cache-info>
```

Description No documentation is available yet.

Contents <alternate-subject>—Series of alternate subject in X.509 certificate.

<auto-re-enrollment>

Usage

```
<x509-certificate-info>
  <auto-re-enrollment>
    <auto-re-enrollment-status>auto-re-enrollment-status
                </auto-re-enrollment-status>
    <auto-re-enrollment-next-trigger-time>auto-re-enrollment-next-trigger-time
                </auto-re-enrollment-next-trigger-time>
  </auto-re-enrollment>
</x509-certificate-info>
```

Description No documentation is available yet.

Contents <auto-re-enrollment-next-trigger-time>—Auto-re-enrollment next trigger time.

<auto-re-enrollment-status>—Auto-re-enrollment information.

<ca-certificate-enroll>

Usage

```
<ca-certificate-enroll-list>
  <ca-certificate-enroll>
    <ca-subject>ca-subject</ca-subject>
    <fingerprint>...</fingerprint>
  </ca-certificate-enroll>
</ca-certificate-enroll-list>
```

Description Dump the subject and fingerprint of received CA certificate.

Contents <ca-subject>—Certificate authority subject.

<fingerprint>—Fingerprint.

<ca-certificate-enroll-list>

Usage

```
<rpc-reply>
  <ca-certificate-enroll-list>
    <ca-certificate-enroll-msg>ca-certificate-enroll-msg
                </ca-certificate-enroll-msg>
    <ca-certificate-enroll>...</ca-certificate-enroll>
  </ca-certificate-enroll-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ca-certificate-enroll>—Dump the subject and fingerprint of received CA certificate.

<ca-certificate-enroll-msg>—Certificate authority enrollment message.

<cert-ca-load-status>

Usage
```
<rpc-reply>
  <cert-ca-load-status>
    <cert-ca-profile>cert-ca-profile</cert-ca-profile>
  </cert-ca-load-status>
</rpc-reply>
```

Description Certificate Authority certificate load status.

Contents <cert-ca-profile>—Certificate Authority profile.

<cert-ca-manual-load>

Usage
```
<rpc-reply>
  <cert-ca-manual-load>
    <fingerprint>...</fingerprint>
  </cert-ca-manual-load>
</rpc-reply>
```

Description CA certificate manual-load prompt.

Contents <fingerprint>—Fingerprint.

<cert-flag-info>

Usage
```
<x509-certificate-cache-info>
  <cert-flag-info>
    <cert-flag-trust>cert-flag-trust</cert-flag-trust>
    <cert-flag-root>cert-flag-root</cert-flag-root>
  </cert-flag-info>
</x509-certificate-cache-info>
```

Description Information about state of certificates present in the cache.

Contents <cert-flag-root>—Information to indicate whether it is a root certificate or not.

<cert-flag-trust>—Information to indicate whether the certificate is trusted or not.

<cert-key-pair>

Usage
```
<rpc-reply>
  <cert-key-pair>
    <cert-key-pair-name>cert-key-pair-name</cert-key-pair-name>
    <cert-key-pair-size>cert-key-pair-size</cert-key-pair-size>
  </cert-key-pair>
</rpc-reply>
```

Description Generate key pair status.

Contents <cert-key-pair-name>—Key pair name.

<cert-key-pair-size>—Key pair size.

<cert-load-status>

Usage

```
<rpc-reply>
  <cert-load-status>
    <cert-certificate-id>cert-certificate-id</cert-certificate-id>
  </cert-load-status>
</rpc-reply>
```

Description Local certificate load status.

Contents <cert-certificate-id>—Certificate identifier.

<cert-request-dump>

Usage

```
<rpc-reply>
  <cert-request-dump>
    <cert-request-dump-msg>cert-request-dump-msg</cert-request-dump-msg>
    <cert-request-dump-file>...</cert-request-dump-file>
    <fingerprint>...</fingerprint>
  </cert-request-dump>
</rpc-reply>
```

Description Dump the generated certificate request.

Contents <cert-request-dump-file>—File contents.

<cert-request-dump-msg>—Certificate request generated message.

<fingerprint>—Fingerprint.

<cert-request-dump-file>

Usage

```
<cert-request-dump>
  <cert-request-dump-file>
    <cert-request-dump-file-content>cert-request-dump-file-content
                </cert-request-dump-file-content>
  </cert-request-dump-file>
</cert-request-dump>
```

Description File contents.

Contents <cert-request-dump-file-content>—File contents.

<certificate-information>

Usage

```
<rpc-reply>
  <certificate-information>
    <certificates>...</certificates>
    <total-entries>total-entries</total-entries>
    <active-entries>active-entries</active-entries>
    <locked-entries>locked-entries</locked-entries>
    <db-stats>db-stats</db-stats>
  </certificate-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<active-entries>—Number of active entries in database.

<certificates>—Information about a single certificate.

<db-stats>—No documentation is available yet.

<locked-entries>—Number of locked entries in database.

<total-entries>—Number of entries in database.

<certificates>

Usage

```
<certificate-information>
  <certificates>
    <cert-subject>cert-subject</cert-subject>
    <cert-serial>cert-serial</cert-serial>
    <cert-id>cert-id</cert-id>
    <cert-references>cert-references</cert-references>
    <cert-issuer>cert-issuer</cert-issuer>
    <cert-trust>cert-trust</cert-trust>
    <cert-root>cert-root</cert-root>
    <cert-crl>cert-crl</cert-crl>
    <cert-before>cert-before</cert-before>
    <cert-after>cert-after</cert-after>
    <x509>...</x509>
  </certificates>
</certificate-information>
```

Description Information about a single certificate.

Contents <cert-after>—No documentation is available yet.

<cert-before>—No documentation is available yet.

<cert-crl>—No documentation is available yet.

<cert-id>—No documentation is available yet.

<cert-issuer>—No documentation is available yet.

<cert-references>—No documentation is available yet.

<cert-root>—No documentation is available yet.

<cert-serial>—No documentation is available yet.

<cert-subject>—No documentation is available yet.

<cert-trust>—No documentation is available yet.

<x509>—Information about a single x509 record.

<crl>

Usage
```
<crl-information>
  <crl>
    <cert-issuer>cert-issuer</cert-issuer>
    <cert-id>cert-id</cert-id>
    <cert-references>cert-references</cert-references>
    <crl-list>...</crl-list>
  </crl>
</crl-information>
```

Description No documentation is available yet.

Contents <cert-id>—No documentation is available yet.

<cert-issuer>—No documentation is available yet.

<cert-references>—No documentation is available yet.

<crl-list>—Information about a single CRL entry.

<crl-information>

Usage
```
<rpc-reply>
  <crl-information>
    <crl>...</crl>
  </crl-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <crl>—No documentation is available yet.

<crl-issuer-alternate-subject-list>

Usage
```
<x509-crl-information>
  <crl-issuer-alternate-subject-list>
    <crl-issuer-alternate-subject>crl-issuer-alternate-subject
                    </crl-issuer-alternate-subject>
  </crl-issuer-alternate-subject-list>
</x509-crl-information>
```

Description No documentation is available yet.

Contents <crl-issuer-alternate-subject>—One or more alternate subject names for CRL issuer.

<crl-issuer-detail>

Usage

```
<x509-crl-information>
  <crl-issuer-detail>
    <distinguished-name>...</distinguished-name>
  </crl-issuer-detail>
</x509-crl-information>
```

Description Distinguished name of CRL issuer.

Contents <distinguished-name>—No documentation is available yet.

<crl-list>

Usage

```
<crl>
  <crl-list>
    <serial>serial</serial>
    <revocation-date>revocation-date</revocation-date>
  </crl-list>
</crl>
```

Description Information about a single CRL entry.

Contents <revocation-date>—No documentation is available yet.

<serial>—No documentation is available yet.

<crl-load-status>

Usage

```
<rpc-reply>
  <crl-load-status>
    <ca-profile-name>ca-profile-name</ca-profile-name>
  </crl-load-status>
</rpc-reply>
```

Description Status of manual load of certificate revocation list.

Contents <ca-profile-name>—Certificate authority profile name.

<crl-revocation-list>

Usage

```
<x509-crl-information>
  <crl-revocation-list>
    <revoked-cert-serial-number>revoked-cert-serial-number
                </revoked-cert-serial-number>
    <crl-revocation-date>crl-revocation-date</crl-revocation-date>
  </crl-revocation-list>
</x509-crl-information>
```

Description No documentation is available yet.

Contents <crl-revocation-date>—Revocation date.

<revoked-cert-serial-number>—Serial number of revoked certificate.

<crl-validity>

Usage
```
<x509-crl-information>
  <crl-validity>
    <effective-date>effective-date</effective-date>
    <next-update>next-update</next-update>
  </crl-validity>
</x509-crl-information>
```

Description Information about validity period for X.509 certificate revocation list.

Contents <effective-date>—Effective date of CRL.

<next-update>—Next update of CRL.

<distinguished-name>

Usage
```
<issuer | subject | crl-issuer-detail>
  <distinguished-name>
    <organization-name>organization-name</organization-name>
    <organizational-unit-name>organizational-unit-name</organizational-unit-name>
    <country-name>country-name</country-name>
    <state-or-province-name>state-or-province-name</state-or-province-name>
    <locality-name>locality-name</locality-name>
    <common-name>common-name</common-name>
    <email-address>email-address</email-address>
    <domain-component>domain-component</domain-component>
  </distinguished-name>
</issuer | subject | crl-issuer-detail>
```

Description No documentation is available yet.

Contents <common-name>—Common name.

<country-name>—Country name.

<domain-component>—Domain component.

<email-address>—E-mail address.

<locality-name>—Locality.

<organization-name>—Organization.

<organizational-unit-name>—Organization unit.

<state-or-province-name>—State.

<distribution-crl-list>

Usage

```
<x509-certificate-info | x509-certificate-cache-info>
  <distribution-crl-list>
    <distribution-crl>distribution-crl</distribution-crl>
  </distribution-crl-list>
</x509-certificate-info | x509-certificate-cache-info>
```

Description Information about one or more distribution certificate revocation lists.

Contents <distribution-crl>—Information about a distribution CRL.

<error-statistics>

Usage

```
<ipsec-statistics>
  <error-statistics>
    <ah-authentication-failures>ah-authentication-failures
                </ah-authentication-failures>
    <replay-errors>replay-errors</replay-errors>
    <esp-authentication-failures>esp-authentication-failures
                </esp-authentication-failures>
    <esp-decryption-failures>esp-decryption-failures</esp-decryption-failures>
    <bad-headers>bad-headers</bad-headers>
    <bad-trailers>bad-trailers</bad-trailers>
  </error-statistics>
</ipsec-statistics>
```

Description No documentation is available yet.

Contents <ah-authentication-failures>—AH authentication failures information.

<bad-headers>—Bad header information.

<bad-trailers>—Bad trailer information.

<esp-authentication-failures>—ESP authentication failures information.

<esp-decryption-failures>—ESP decryption failures information.

<replay-errors>—Replay error information.

<esp-statistics>

Usage

```
<ipsec-statistics>
  <esp-statistics>
    <esp-encrypted-bytes>esp-encrypted-bytes</esp-encrypted-bytes>
    <esp-decrypted-bytes>esp-decrypted-bytes</esp-decrypted-bytes>
    <esp-encrypted-packets>esp-encrypted-packets</esp-encrypted-packets>
    <esp-decrypted-packets>esp-decrypted-packets</esp-decrypted-packets>
  </esp-statistics>
</ipsec-statistics>
```

Description No documentation is available yet.

Contents <esp-decrypted-bytes>—ESP decrypted bytes information.

<esp-decrypted-packets>—ESP decrypted packets information.

<esp-encrypted-bytes>—ESP encrypted bytes information.

<esp-encrypted-packets>—ESP encrypted packets information.

<fingerprint>

Usage

```
<x509-certificate-info | cert-ca-manual-load | cert-request-dump | ca-certificate-enroll |
x509-certificate-cache-info>
  <fingerprint>
    <fingerprint-hash-algorithm>fingerprint-hash-algorithm
                  </fingerprint-hash-algorithm>
    <fingerprint-content>fingerprint-content</fingerprint-content>
  </fingerprint>
</x509-certificate-info | cert-ca-manual-load | cert-request-dump | ca-certificate-enroll |
x509-certificate-cache-info>
```

Description Fingerprint.

Contents <fingerprint-content>—No documentation is available yet.

<fingerprint-hash-algorithm>—No documentation is available yet.

<fips-pic-status>

Usage
```
<fips-pic-status-information>
  <fips-pic-status>
    <fpc-slot>fpc-slot</fpc-slot>
    <pic-slot>pic-slot</pic-slot>
    <serial-number>serial-number</serial-number>
    <authorization-status>authorization-status</authorization-status>
  </fips-pic-status>
</fips-pic-status-information>
```

Description No documentation is available yet.

Contents <authorization-status>—PIC authorization status.

<fpc-slot>—FPC slot.

<pic-slot>—PIC slot.

<serial-number>—PIC serial number.

<fips-pic-status-information>

Usage
```
<rpc-reply>
  <fips-pic-status-information>
    <fips-pic-status>...</fips-pic-status>
  </fips-pic-status-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fips-pic-status>—No documentation is available yet.

<ike-sa-algorithms>

Usage
```
<ike-security-associations>
  <ike-sa-algorithms>
    <ike-sa-authentication-algorithm>ike-sa-authentication-algorithm
                </ike-sa-authentication-algorithm>
    <ike-sa-encryption-algorithm>ike-sa-encryption-algorithm
                </ike-sa-encryption-algorithm>
    <ike-sa-prf-algorithm>ike-sa-prf-algorithm</ike-sa-prf-algorithm>
  </ike-sa-algorithms>
</ike-security-associations>
```

Description Algorithms used with the SA information.

Contents <ike-sa-authentication-algorithm>—Authentication algorithm.

<ike-sa-encryption-algorithm>—Encryption algorithm.

<ike-sa-prf-algorithm>—PRF algorithm.

<ike-sa-misc>

Usage

```
<ike-security-associations>
  <ike-sa-misc>
    <ike-sa-flags>ike-sa-flags</ike-sa-flags>
    <ike-sa-num-ipsec-sas-created>ike-sa-num-ipsec-sas-created
                </ike-sa-num-ipsec-sas-created>
    <ike-sa-num-ipsec-sas-deleted>ike-sa-num-ipsec-sas-deleted
                </ike-sa-num-ipsec-sas-deleted>
    <ike-sa-num-phase2-negotiations>ike-sa-num-phase2-negotiations
                </ike-sa-num-phase2-negotiations>
  </ike-sa-misc>
</ike-security-associations>
```

Description Miscellaneous IKE SA information.

Contents <ike-sa-flags>—IKE SA flags.

<ike-sa-num-ipsec-sas-created>—Number of IPSec SAs created using this SA.

<ike-sa-num-ipsec-sas-deleted>—Number of IPSec SAs deleted using this SA.

<ike-sa-num-phase2-negotiations>—Number of negotiations in progress on this SA.

<ike-sa-phase2-information>

Usage

```
<ike-security-associations | ike-security-associations-information>
  <ike-sa-phase2-information>
    <ike-sa-phase2-type>ike-sa-phase2-type</ike-sa-phase2-type>
    <ike-sa-role>ike-sa-role</ike-sa-role>
    <ike-sa-msg-id>ike-sa-msg-id</ike-sa-msg-id>
    <ike-sa-local-address>ike-sa-local-address</ike-sa-local-address>
    <ike-sa-local-port>ike-sa-local-port</ike-sa-local-port>
    <ike-sa-remote-address>ike-sa-remote-address</ike-sa-remote-address>
    <ike-sa-remote-port>ike-sa-remote-port</ike-sa-remote-port>
    <ike-sa-local-id>ike-sa-local-id</ike-sa-local-id>
    <ike-sa-remote-id>ike-sa-remote-id</ike-sa-remote-id>
    <ike-sa-flags>ike-sa-flags</ike-sa-flags>
  </ike-sa-phase2-information>
</ike-security-associations | ike-security-associations-information>
```

Description Information about phase 2 negotiation.

Contents <ike-sa-flags>—IKE SA flags.

<ike-sa-local-address>—Local address.

<ike-sa-local-id>—Local end identity in phase 2.

<ike-sa-local-port>—Local port.

<ike-sa-msg-id>—Message ID of the quick mode negotiation.

<ike-sa-phase2-type>—Type of phase 2 negotiation.

<ike-sa-remote-address>—Remote address.

<ike-sa-remote-id>—Remote end identity in phase 2.

<ike-sa-remote-port>—Remote port.

<ike-sa-role>—Role of our end.

<ike-sa-traffic-statistics>

Usage

```
<ike-security-associations>
  <ike-sa-traffic-statistics>
    <ike-sa-input-packets>ike-sa-input-packets</ike-sa-input-packets>
    <ike-sa-output-packets>ike-sa-output-packets</ike-sa-output-packets>
    <ike-sa-input-bytes>ike-sa-input-bytes</ike-sa-input-bytes>
    <ike-sa-output-bytes>ike-sa-output-bytes</ike-sa-output-bytes>
  </ike-sa-traffic-statistics>
</ike-security-associations>
```

Description Number of packets and bytes received and transmitted on the SA.

Contents <ike-sa-input-bytes>—Input bytes, including retransmissions.

<ike-sa-input-packets>—Input packets, including retransmissions.

<ike-sa-output-bytes>—Output bytes, including retransmissions.

<ike-sa-output-packets>—Output packets, including retransmissions.

<ike-security-associations>

Usage

```
<ike-security-associations-information | ike-security-associations-block>
  <ike-security-associations>
    <ike-sa-role>ike-sa-role</ike-sa-role>
    <ike-sa-state>ike-sa-state</ike-sa-state>
    <ike-sa-initiator-cookie>ike-sa-initiator-cookie</ike-sa-initiator-cookie>
    <ike-sa-responder-cookie>ike-sa-responder-cookie</ike-sa-responder-cookie>
    <ike-sa-exchange-type>ike-sa-exchange-type</ike-sa-exchange-type>
    <ike-sa-authentication-method>ike-sa-authentication-method
                </ike-sa-authentication-method>
    <ike-sa-local-address>ike-sa-local-address</ike-sa-local-address>
    <ike-sa-local-port>ike-sa-local-port</ike-sa-local-port>
    <ike-sa-remote-address>ike-sa-remote-address</ike-sa-remote-address>
    <ike-sa-remote-port>ike-sa-remote-port</ike-sa-remote-port>
    <ike-sa-lifetime>ike-sa-lifetime</ike-sa-lifetime>
    <ike-sa-algorithms>...</ike-sa-algorithms>
    <ike-sa-traffic-statistics>...</ike-sa-traffic-statistics>
    <ike-sa-misc>...</ike-sa-misc>
    <ike-sa-phase2-information>...</ike-sa-phase2-information>
  </ike-security-associations>
</ike-security-associations-information | ike-security-associations-block>
```

Description Information about a single security association.

Contents <ike-sa-algorithms>—Algorithms used with the SA information.

<ike-sa-authentication-method>—No documentation is available yet.

<ike-sa-exchange-type>—Exchange type.

<ike-sa-initiator-cookie>—IKE SA initiator cookie.

<ike-sa-lifetime>—Remaining lifetime before expiration, in seconds or kilobytes.

<ike-sa-local-address>—Local address.

<ike-sa-local-port>—Local port.

<ike-sa-misc>—Miscellaneous IKE SA information.

<ike-sa-phase2-information>—Information about phase 2 negotiation.

<ike-sa-remote-address>—Remote address.

<ike-sa-remote-port>—Remote port.

<ike-sa-responder-cookie>—IKE SA responder cookie.

<ike-sa-role>—Role of our end.

<ike-sa-state>—Status of the SA.

<ike-sa-traffic-statistics>—Number of packets and bytes received and transmitted on the SA.

<ike-security-associations-block>

Usage
```
<ike-security-associations-information>
  <ike-security-associations-block>
    <ike-sa-remote-address>ike-sa-remote-address</ike-sa-remote-address>
    <ike-security-associations>...</ike-security-associations>
  </ike-security-associations-block>
</ike-security-associations-information>
```

Description Information about a single security association block.

Contents <ike-sa-remote-address>—Remote address.

<ike-security-associations>—Information about a single security association.

<ike-security-associations-information>

Usage
```
<rpc-reply>
  <ike-security-associations-information>
    <ike-security-associations>...</ike-security-associations>
    <ike-sa-phase2-information>...</ike-sa-phase2-information>
    <ike-security-associations-block>...</ike-security-associations-block>
  </ike-security-associations-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ike-sa-phase2-information>—Information about phase 2 negotiation.

<ike-security-associations>—Information about a single security association.

<ike-security-associations-block>—Information about a single security association block.

<ipsec-pic-redundancy>

Usage

```
<ipsec-pic-redundancy-information>
  <ipsec-pic-redundancy>
    <ipsec-redundancy-counter>ipsec-redundancy-counter</ipsec-redundancy-counter>
    <ipsec-redundancy-pic-no-information/>
    <ipsec-pic-redundancy-primary-interface>ipsec-pic-redundancy-primary-interface
            </ipsec-pic-redundancy-primary-interface>
    <ipsec-pic-redundancy-backup-interface>ipsec-pic-redundancy-backup-interface
            </ipsec-pic-redundancy-backup-interface>
    <ipsec-redundancy-primary-state>ipsec-redundancy-primary-state
            </ipsec-redundancy-primary-state>
    <ipsec-redundancy-backup-state>ipsec-redundancy-backup-state
            </ipsec-redundancy-backup-state>
  </ipsec-pic-redundancy>
</ipsec-pic-redundancy-information>
```

Description Information about ipsec pic redundancy.

Contents <ipsec-pic-redundancy-backup-interface>—Backup ES interface.

<ipsec-pic-redundancy-primary-interface>—Primary ES interface.

<ipsec-redundancy-backup-state>—State of backup remote gateway.

<ipsec-redundancy-counter>—Failover counter.

<ipsec-redundancy-pic-no-information>—Output string when there are no pic redundancy present.

<ipsec-redundancy-primary-state>—State of primary remote gateway.

<ipsec-pic-redundancy-information>

Usage

```
<rpc-reply>
  <ipsec-pic-redundancy-information>
    <ipsec-pic-redundancy>...</ipsec-pic-redundancy>
  </ipsec-pic-redundancy-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipsec-pic-redundancy>—Information about ipsec pic redundancy.

<ipsec-service-set-statistics>

Usage

```
<ipsec-total-statistics | ipsec-total-statistics-information>
  <ipsec-service-set-statistics>
    <pic-name>pic-name</pic-name>
    <service-set-name>service-set-name</service-set-name>
    <ipsec-statistics>...</ipsec-statistics>
  </ipsec-service-set-statistics>
</ipsec-total-statistics | ipsec-total-statistics-information>
```

Description No documentation is available yet.

Contents <ipsec-statistics>—No documentation is available yet.

<pic-name>—PIC name.

<service-set-name>—Service set name.

<ipsec-statistics>

Usage

```
<ipsec-service-set-statistics>
  <ipsec-statistics>
    <local-gateway>local-gateway</local-gateway>
    <remote-gateway>remote-gateway</remote-gateway>
    <tunnel-index>tunnel-index</tunnel-index>
    <esp-statistics>...</esp-statistics>
    <ah-statistics>...</ah-statistics>
    <error-statistics>...</error-statistics>
    <statistics-no-information/>
  </ipsec-statistics>
</ipsec-service-set-statistics>
```

Description No documentation is available yet.

Contents <ah-statistics>—No documentation is available yet.

<error-statistics>—No documentation is available yet.

<esp-statistics>—No documentation is available yet.

<local-gateway>—Local gateway address.

<remote-gateway>—Remote gateway address.

<statistics-no-information>—Output string when there are no statistics to report.

<tunnel-index>—Tunnel index.

<ipsec-total-statistics>

Usage

```
<rpc-reply>
  <ipsec-total-statistics>
    <ipsec-service-set-statistics>...</ipsec-service-set-statistics>
  </ipsec-total-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipsec-service-set-statistics>—No documentation is available yet.

<ipsec-total-statistics-information>

Usage

```
<rpc-reply>
  <ipsec-total-statistics-information>
    <ipsec-service-set-statistics>...</ipsec-service-set-statistics>
  </ipsec-total-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipsec-service-set-statistics>—No documentation is available yet.

<ipsec-tunnel-redundancy>

Usage

```
<ipsec-tunnel-redundancy-information>
  <ipsec-tunnel-redundancy>
    <sa-name>sa-name</sa-name>
    <ipsec-redundancy-counter>ipsec-redundancy-counter</ipsec-redundancy-counter>
    <ipsec-redundancy-tunnel-no-information/>
    <ipsec-tunnel-redundancy-local-address>ipsec-tunnel-redundancy-local-address
                </ipsec-tunnel-redundancy-local-address>

<ipsec-tunnel-redundancy-primary-remote-address>ipsec-tunnel-redundancy-primary-remote-address
                </ipsec-tunnel-redundancy-primary-remote-address>

<ipsec-tunnel-redundancy-backup-remote-address>ipsec-tunnel-redundancy-backup-remote-address
                </ipsec-tunnel-redundancy-backup-remote-address>
    <ipsec-redundancy-primary-state>ipsec-redundancy-primary-state
                </ipsec-redundancy-primary-state>
    <ipsec-redundancy-backup-state>ipsec-redundancy-backup-state
                </ipsec-redundancy-backup-state>
  </ipsec-tunnel-redundancy>
</ipsec-tunnel-redundancy-information>
```

Description Information about ipsec tunnel redundancy.

Contents

<ipsec-redundancy-backup-state>—State of backup remote gateway.

<ipsec-redundancy-counter>—Failover counter.

<ipsec-redundancy-primary-state>—State of primary remote gateway.

<ipsec-redundancy-tunnel-no-information>—Output string when tunnel redundancy is not configured.

<ipsec-tunnel-redundancy-backup-remote-address>—Address of backup remote gateway.

<ipsec-tunnel-redundancy-local-address>—Address of local gateway.

<ipsec-tunnel-redundancy-primary-remote-address>—Address of primary remote gateway.

<sa-name>—Name of the security association.

<ipsec-tunnel-redundancy-information>

Usage
```
<rpc-reply>
  <ipsec-tunnel-redundancy-information>
    <ipsec-tunnel-redundancy>...</ipsec-tunnel-redundancy>
  </ipsec-tunnel-redundancy-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipsec-tunnel-redundancy>—Information about ipsec tunnel redundancy.

<issue-info>

Usage
```
<x509-certificate-info | x509-certificate-cache-info>
  <issue-info>
    <recipient>recipient</recipient>
    <issued-by>issued-by</issued-by>
  </issue-info>
</x509-certificate-info | x509-certificate-cache-info>
```

Description No documentation is available yet.

Contents <issued-by>—No documentation is available yet.

<recipient>—No documentation is available yet.

<issuer>

Usage
```
<x509-certificate-info>
  <issuer>
    <distinguished-name>...</distinguished-name>
  </issuer>
</x509-certificate-info>
```

Description Identifies the CA that issued certificate.

Contents <distinguished-name>—No documentation is available yet.

<key-usage-list>

Usage
```
<x509-certificate-info | x509-certificate-cache-info>
  <key-usage-list>
    <key-usage>key-usage</key-usage>
  </key-usage-list>
</x509-certificate-info | x509-certificate-cache-info>
```

Description No documentation is available yet.

Contents <key-usage>—Purpose for which X.509 key is used.

<kmd-memory-usage>

Usage
```
<kmd-memory-usage-information>
  <kmd-memory-usage>
    <memory-block-type>memory-block-type</memory-block-type>
    <memory-in-use>memory-in-use</memory-in-use>
  </kmd-memory-usage>
</kmd-memory-usage-information>
```

Description Information about key management daemon memory usage.

Contents <memory-block-type>—Memory block type.

<memory-in-use>—Memory in use.

<kmd-memory-usage-information>

Usage
```
<rpc-reply>
  <kmd-memory-usage-information>
    <kmd-memory-usage>...</kmd-memory-usage>
  </kmd-memory-usage-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <kmd-memory-usage>—Information about key management daemon memory usage.

<pki-scep>

Usage

```
<rpc-reply>
  <pki-scep>
    <url>url</url>
    <ca-name>ca-name</ca-name>
    <ca-file>ca-file</ca-file>
    <key>key</key>
    <certificate-subject>certificate-subject</certificate-subject>
    <certificate-dns>certificate-dns</certificate-dns>
    <certificate-alternate-subject>certificate-alternate-subject
                </certificate-alternate-subject>
    <encoding>encoding</encoding>
    <message>message</message>
  </pki-scep>
</rpc-reply>
```

Description Simple Certificate Enrollment Protocol.

Contents <ca-file>—Filename containing CA certificate.

<ca-name>—Name of certificate authority.

<certificate-alternate-subject>—Alternate subject.

<certificate-dns>—Domain name.

<certificate-subject>—Subject.

<encoding>—Encoding.

<key>—Key pair.

<message>—Message displayed when SCEP initializes.

<url>—Enrollment request URL.

<public-key>

Usage

```
<x509-certificate-info | x509-certificate-cache-info>
  <public-key>
    <public-key-algorithm>public-key-algorithm</public-key-algorithm>
    <public-key-length>public-key-length</public-key-length>
    <public-key-verification-status>public-key-verification-status
                </public-key-verification-status>
  </public-key>
</x509-certificate-info | x509-certificate-cache-info>
```

Description Information about an X.509 public key.

Contents <public-key-algorithm>—Algorithm used for creating the subject public key.

<public-key-length>—Length of X.509 public.

<public-key-verification-status>—Verification status of X.509 public key.

<public-key-contents-list>

Usage
```
<x509-certificate-info | x509-certificate-cache-info>
  <public-key-contents-list>
    <key-contents>key-contents</key-contents>
  </public-key-contents-list>
</x509-certificate-info | x509-certificate-cache-info>
```

Description No documentation is available yet.

Contents <key-contents>—Contents of an X.509 public key.

<sa-tunnel-information>

Usage
```
<security-associations-block | security-associations-information |
services-security-associations-block | services-security-associations-information>
  <sa-tunnel-information>
    <sa-rule-name>sa-rule-name</sa-rule-name>
    <sa-term-name>sa-term-name</sa-term-name>
    <sa-tunnel-index>sa-tunnel-index</sa-tunnel-index>
    <sa-local-gateway>sa-local-gateway</sa-local-gateway>
    <sa-remote-gateway>sa-remote-gateway</sa-remote-gateway>
    <sa-local-identity>sa-local-identity</sa-local-identity>
    <sa-remote-identity>sa-remote-identity</sa-remote-identity>
    <sa-inside-interface>sa-inside-interface</sa-inside-interface>
    <sa-tunnel-mtu>sa-tunnel-mtu</sa-tunnel-mtu>
    <sa-no-information/>
  </sa-tunnel-information>
</security-associations-block | security-associations-information |
services-security-associations-block | services-security-associations-information>
```

Description No documentation is available yet.

Contents <sa-inside-interface>—Name of IPSec interface to internal network.

<sa-local-gateway>—Local gateway address.

<sa-local-identity>—Local identity information.

<sa-no-information>—Output string when there are no security associations present.

<sa-remote-gateway>—Remote gateway address.

<sa-remote-identity>—Remote identity information.

<sa-rule-name>—Name of the rule.

<sa-term-name>—Name of the term.

<sa-tunnel-index>—Tunnel index.

<sa-tunnel-mtu>—MTU of the IPSec Tunnel.

<security-associations>

Usage

```
<security-associations-block | security-associations-information |
services-security-associations-block | services-security-associations-information>
  <security-associations>
    <sa-direction>sa-direction</sa-direction>
    <sa-spi>sa-spi</sa-spi>
    <sa-aux-spi>sa-aux-spi</sa-aux-spi>
    <sa-state>sa-state</sa-state>
    <sa-mode>sa-mode</sa-mode>
    <sa-type>sa-type</sa-type>
    <sa-protocol>sa-protocol</sa-protocol>
    <sa-authentication-algorithm>sa-authentication-algorithm
                </sa-authentication-algorithm>
    <sa-encryption-algorithm>sa-encryption-algorithm</sa-encryption-algorithm>
    <sa-soft-lifetime>sa-soft-lifetime</sa-soft-lifetime>
    <sa-hard-lifetime>sa-hard-lifetime</sa-hard-lifetime>
    <sa-anti-replay-service>sa-anti-replay-service</sa-anti-replay-service>
    <sa-replay-window-size>sa-replay-window-size</sa-replay-window-size>
  </security-associations>
</security-associations-block | security-associations-information |
services-security-associations-block | services-security-associations-information>
```

Description Information about a single security association.

Contents

<sa-anti-replay-service>—Anti-replay service.

<sa-authentication-algorithm>—Authentication algorithm.

<sa-aux-spi>—Auxiliary Security Parameter Index.

<sa-direction>—Direction of the security association.

<sa-encryption-algorithm>—Encryption algorithm.

<sa-hard-lifetime>—Remaining lifetime, in seconds or kilobytes, before hard lifetime expires.

<sa-mode>—Mode of the security association.

<sa-protocol>—IPSec security protocol.

<sa-replay-window-size>—Replay window size.

<sa-soft-lifetime>—Remaining lifetime, in seconds or kilobytes, before soft lifetime expires.

<sa-spi>—Security Parameter Index.

<sa-state>—Status of the SA.

<sa-type>—No documentation is available yet.

<security-associations-block>

Usage
```
<security-associations-information>
  <security-associations-block>
    <sa-name>sa-name</sa-name>
    <sa-block-state>sa-block-state</sa-block-state>
    <sa-tunnel-information>...</sa-tunnel-information>
    <security-associations>...</security-associations>
  </security-associations-block>
</security-associations-information>
```

Description Information about a single security association block.

Contents <sa-block-state>—Status of the SA configuration block.

<sa-name>—Name of the security association.

<sa-tunnel-information>—No documentation is available yet.

<security-associations>—Information about a single security association.

<security-associations-information>

Usage
```
<rpc-reply>
  <security-associations-information>
    <security-associations-block>...</security-associations-block>
    <sa-tunnel-information>...</sa-tunnel-information>
    <security-associations>...</security-associations>
  </security-associations-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <sa-tunnel-information>—No documentation is available yet.

<security-associations>—Information about a single security association.

<security-associations-block>—Information about a single security association block.

<serial-number-list>

Usage
```
<x509-certificate-info | x509-certificate-cache-info>
  <serial-number-list>
    <serial-number-x509>serial-number-x509</serial-number-x509>
  </serial-number-list>
</x509-certificate-info | x509-certificate-cache-info>
```

Description Serial numbers of one or more X.509 certificate.

Contents <serial-number-x509>—Serial number of an X.509 certificate.

<service-set-info>

Usage

```
<x509-certificate-cache-info>
  <service-set-info>
    <service-set-name>service-set-name</service-set-name>
    <total-cert-entries>total-cert-entries</total-cert-entries>
  </service-set-info>
</x509-certificate-cache-info>
```

Description Information about service set and certificate cache statistics.

Contents <service-set-name>—Service set name.

<total-cert-entries>—Information about certificate entries present in the cache.

<services-security-associations-block>

Usage

```
<services-security-associations-information>
  <services-security-associations-block>
    <svc-set-name>svc-set-name</svc-set-name>

<outside-service-interface-routing-instance>outside-service-interface-routing-instance
                    </outside-service-interface-routing-instance>
    <sa-tunnel-information>...</sa-tunnel-information>
    <security-associations>...</security-associations>
    <tunnel-redundancy-extensive>...</tunnel-redundancy-extensive>
  </services-security-associations-block>
</services-security-associations-information>
```

Description Information about a single services security associations block.

Contents <outside-service-interface-routing-instance>—Name of routing instance that hosts outside service interface.

<sa-tunnel-information>—No documentation is available yet.

<security-associations>—Information about a single security association.

<svc-set-name>—Name of the service set.

<tunnel-redundancy-extensive>—Information about IPSec tunnel redundancy.

<services-security-associations-information>

Usage

```
<rpc-reply>
  <services-security-associations-information>
    <services-security-associations-block>...
                    </services-security-associations-block>
    <sa-tunnel-information>...</sa-tunnel-information>
    <security-associations>...</security-associations>
    <tunnel-redundancy-extensive>...</tunnel-redundancy-extensive>
  </services-security-associations-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <sa-tunnel-information>—No documentation is available yet.

<security-associations>—Information about a single security association.

<services-security-associations-block>—Information about a single services security associations block.

<tunnel-redundancy-extensive>—Information about IPSec tunnel redundancy.

<subject>

Usage

```
<x509-certificate-info>
  <subject>
    <distinguished-name>...</distinguished-name>
  </subject>
</x509-certificate-info>
```

Description Information about certificate owner.

Contents <distinguished-name>—No documentation is available yet.

<tunnel-redundancy-extensive>

Usage

```
<services-security-associations-block | services-security-associations-information>
  <tunnel-redundancy-extensive>
    <ipsec-redundancy-counter>ipsec-redundancy-counter</ipsec-redundancy-counter>
    <ipsec-redundancy-tunnel-no-information/>

<ipsec-tunnel-redundancy-primary-remote-address>ipsec-tunnel-redundancy-primary-rem
ote-address
                    </ipsec-tunnel-redundancy-primary-remote-address>

<ipsec-tunnel-redundancy-backup-remote-address>ipsec-tunnel-redundancy-backup-rem
ote-address
                    </ipsec-tunnel-redundancy-backup-remote-address>
    <ipsec-redundancy-primary-state>ipsec-redundancy-primary-state
                    </ipsec-redundancy-primary-state>
    <ipsec-redundancy-backup-state>ipsec-redundancy-backup-state
                    </ipsec-redundancy-backup-state>
  </tunnel-redundancy-extensive>
</services-security-associations-block | services-security-associations-information>
```

Description Information about IPSec tunnel redundancy.

Contents <ipsec-redundancy-backup-state>—State of backup remote gateway.

<ipsec-redundancy-counter>—Failover counter.

<ipsec-redundancy-primary-state>—State of primary remote gateway.

<ipsec-redundancy-tunnel-no-information>—Output string when tunnel redundancy is not configured.

<ipsec-tunnel-redundancy-backup-remote-address>—Address of backup remote gateway.

<ipsec-tunnel-redundancy-primary-remote-address>—Address of primary remote gateway.

<validity>

Usage

```
<x509-certificate-info | x509-certificate-cache-info>
  <validity>
    <not-before>not-before</not-before>
    <not-after>not-after</not-after>
  </validity>
</x509-certificate-info | x509-certificate-cache-info>
```

Description Information about validity period for X.509 certificate.

Contents <not-after>—End date of validity period.

<not-before>—Start date of validity period.

<*x509*>

Usage

```
<certificates>
  <x509>
    <x509-ip>x509-ip</x509-ip>
    <x509-dns>x509-dns</x509-dns>
    <x509-uri>x509-uri</x509-uri>
    <x509-email>x509-email</x509-email>
  </x509>
</certificates>
```

Description Information about a single x509 record.

Contents <x509-dns>—No documentation is available yet.

<x509-email>—No documentation is available yet.

<x509-ip>—No documentation is available yet.

<x509-uri>—No documentation is available yet.

<x509-certificate-cache-info>

Usage

```
<x509-certificate-cache-info-list>
  <x509-certificate-cache-info>
    <service-set-info>...</service-set-info>
    <cert-flag-info>...</cert-flag-info>
    <issue-info>...</issue-info>
    <serial-number-list>...</serial-number-list>
    <public-key>...</public-key>
    <fingerprint>...</fingerprint>
    <public-key-contents-list>...</public-key-contents-list>
    <alternate-subject-list>...</alternate-subject-list>
    <key-usage-list>...</key-usage-list>
    <distribution-crl-list>...</distribution-crl-list>
    <signature-algorithm>signature-algorithm</signature-algorithm>
    <identifier>identifier</identifier>
    <validity>...</validity>
    <version>version</version>
    <certificate-cache-entry>certificate-cache-entry</certificate-cache-entry>
  </x509-certificate-cache-info>
</x509-certificate-cache-info-list>
```

Description Information about an X.509 certificate present in the cache.

Contents <alternate-subject-list>—No documentation is available yet.

<cert-flag-info>—Information about state of certificates present in the cache.

<certificate-cache-entry>—Identifier for the certificate entry present in the cache.

<distribution-crl-list>—Information about one or more distribution certificate revocation lists.

<fingerprint>—Fingerprint.

<identifier>—Certificate identifier.

<issue-info>—No documentation is available yet.

<key-usage-list>—No documentation is available yet.

<public-key>—Information about an X.509 public key.

<public-key-contents-list>—No documentation is available yet.

<serial-number-list>—Serial numbers of one or more X.509 certificate.

<service-set-info>—Information about service set and certificate cache statistics.

<signature-algorithm>—Algorithm used by the CA to sign the certificate.

<validity>—Information about validity period for X.509 certificate.

<version>—Certificate version.

<x509-certificate-cache-info-list>

Usage

```
<rpc-reply>
  <x509-certificate-cache-info-list>
    <x509-certificate-cache-info>...</x509-certificate-cache-info>
  </x509-certificate-cache-info-list>
</rpc-reply>
```

Description Details of X.509 certificates present in the cache.

Contents <x509-certificate-cache-info>—Information about an X.509 certificate present in the cache.

<x509-certificate-info>

Usage

```
<x509-pki-certificate-info-list>
  <x509-certificate-info>
    <issue-info>...</issue-info>
    <serial-number-list>...</serial-number-list>
    <public-key>...</public-key>
    <fingerprint>...</fingerprint>
    <public-key-contents-list>...</public-key-contents-list>
    <alternate-subject-list>...</alternate-subject-list>
    <key-usage-list>...</key-usage-list>
    <distribution-crl-list>...</distribution-crl-list>
    <signature-algorithm>signature-algorithm</signature-algorithm>
    <identifier>identifier</identifier>
    <validity>...</validity>
    <version>version</version>
    <auto-re-enrollment>...</auto-re-enrollment>
    <certificate-type>certificate-type</certificate-type>
    <status>status</status>
    <issuer>...</issuer>
    <subject>...</subject>
  </x509-certificate-info>
</x509-pki-certificate-info-list>
```

Description Detailed information about an X.509 certificate.

Contents

<alternate-subject-list>—No documentation is available yet.

<auto-re-enrollment>—No documentation is available yet.

<certificate-type>—X.509 certificate type.

<distribution-crl-list>—Information about one or more distribution certificate revocation lists.

<fingerprint>—Fingerprint.

<identifier>—Certificate identifier.

<issue-info>—No documentation is available yet.

<issuer>—Identifies the CA that issued certificate.

<key-usage-list>—No documentation is available yet.

<public-key>—Information about an X.509 public key.

<public-key-contents-list>—No documentation is available yet.

<serial-number-list>—Serial numbers of one or more X.509 certificate.

<signature-algorithm>—Algorithm used by the CA to sign the certificate.

<status>—No documentation is available yet.

<subject>—Information about certificate owner.

<validity>—Information about validity period for X.509 certificate.

<version>—Certificate version.

<x509-crl-information>

Usage
```
<x509-pki-crl-information-list>
  <x509-crl-information>
    <crl-number>crl-number</crl-number>
    <crl-revocation-list>...</crl-revocation-list>
    <crl-validity>...</crl-validity>
    <crl-version>crl-version</crl-version>
    <crl-issuer>crl-issuer</crl-issuer>
    <identifier>identifier</identifier>
    <crl-issuer-alternate-subject-list>...</crl-issuer-alternate-subject-list>
    <crl-issuer-detail>...</crl-issuer-detail>
  </x509-crl-information>
</x509-pki-crl-information-list>
```

Description Detailed information about X.509 certificate revocation list.

Contents <crl-issuer>—CRL issuer name.

<crl-issuer-alternate-subject-list>—No documentation is available yet.

<crl-issuer-detail>—Distinguished name of CRL issuer.

<crl-number>—CRL sequence number.

<crl-revocation-list>—No documentation is available yet.

<crl-validity>—Information about validity period for X.509 certificate revocation list.

<crl-version>—CRL version.

<identifier>—Certificate identifier.

<x509-pki-certificate-info-list>

Usage
```
<rpc-reply>
  <x509-pki-certificate-info-list>
    <x509-certificate-info>...</x509-certificate-info>
  </x509-pki-certificate-info-list>
</rpc-reply>
```

Description X.509 certificate details.

Contents <x509-certificate-info>—Detailed information about an X.509 certificate.

<x509-pki-crl-information-list>

Usage

```
<rpc-reply>
  <x509-pki-crl-information-list>
    <x509-crl-information>...</x509-crl-information>
  </x509-pki-crl-information-list>
</rpc-reply>
```

Description Detailed information about X.509 certificate revocation list.

Contents <x509-crl-information>—Detailed information about X.509 certificate revocation list.

Summary of IPv6 Neighbor Discovery Response Tags

This section lists JUNOS XML tags that contain operational information about IP version 6 (IPv6) neighbor discovery. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ipv6-nd. To review the DTD for the tags, see "DTD for IPv6 Neighbor Discovery Response Tags" on page 2225.

<ipv6-modify-nd>

Usage

```
<rpc-reply>
  <ipv6-modify-nd>
    <ipv6-modify-nd-entry>...</ipv6-modify-nd-entry>
  </ipv6-modify-nd>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipv6-modify-nd-entry>—No documentation is available yet.

<ipv6-modify-nd-entry>

Usage

```
<ipv6-modify-nd>
  <ipv6-modify-nd-entry>
    <ipv6-nd-neighbor-address>ipv6-nd-neighbor-address</ipv6-nd-neighbor-address>
    <ipv6-nd-neighbor-l2-address>ipv6-nd-neighbor-l2-address
                    </ipv6-nd-neighbor-l2-address>
    <ipv6-nd-change>ipv6-nd-change</ipv6-nd-change>
  </ipv6-modify-nd-entry>
</ipv6-modify-nd>
```

Description No documentation is available yet.

Contents <ipv6-nd-change>—No documentation is available yet.

<ipv6-nd-neighbor-address>—Address of the neighbor.

<ipv6-nd-neighbor-l2-address>—Layer 2 address of the neighbor.

<ipv6-nd-entry>

Usage

```
<ipv6-nd-information>
  <ipv6-nd-entry>
    <ipv6-nd-neighbor-address>ipv6-nd-neighbor-address</ipv6-nd-neighbor-address>
    <ipv6-nd-neighbor-l2-address>ipv6-nd-neighbor-l2-address
                </ipv6-nd-neighbor-l2-address>
    <ipv6-nd-total>ipv6-nd-total</ipv6-nd-total>
    <ipv6-nd-state>ipv6-nd-state</ipv6-nd-state>
    <ipv6-nd-expire>ipv6-nd-expire</ipv6-nd-expire>
    <ipv6-nd-isrouter>ipv6-nd-isrouter</ipv6-nd-isrouter>
    <ipv6-nd-issecure>ipv6-nd-issecure</ipv6-nd-issecure>
    <ipv6-nd-interface-name>ipv6-nd-interface-name</ipv6-nd-interface-name>
  </ipv6-nd-entry>
</ipv6-nd-information>
```

Description No documentation is available yet.

Contents <ipv6-nd-expire>—No documentation is available yet.

<ipv6-nd-interface-name>—Name of the interface.

<ipv6-nd-isrouter>—No documentation is available yet.

<ipv6-nd-issecure>—No documentation is available yet.

<ipv6-nd-neighbor-address>—Address of the neighbor.

<ipv6-nd-neighbor-l2-address>—Layer 2 address of the neighbor.

<ipv6-nd-state>—No documentation is available yet.

<ipv6-nd-total>—Total number of cache entries.

<ipv6-nd-information>

Usage

```
<rpc-reply>
  <ipv6-nd-information>
    <ipv6-nd-entry>...</ipv6-nd-entry>
  </ipv6-nd-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipv6-nd-entry>—No documentation is available yet.

Summary of ISDN Response Tags

This section lists JUNOS XML tags that contain operational information about ISDN. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-isdnd. To review the DTD for the tags, see "DTD for ISDN Response Tags" on page 2227.

<ces-status>

Usage

```
<q921-status>
  <ces-status>
    <ces-num>ces-num</ces-num>
    <layer2-status>layer2-status</layer2-status>
    <tei-status>tei-status</tei-status>
    <tei-assigned>tei-assigned</tei-assigned>
  </ces-status>
</q921-status>
```

Description Connection Endpoint Suffix status.

Contents <ces-num>—Connection Endpoint Suffix number.

<layer2-status>—Layer 2 status.

<tei-assigned>—Terminal Equipment Identifier (TEI) assigned value.

<tei-status>—Terminal Equipment Identifier (TEI) assigned status.

<endpoint>

Usage

```
<endpoint-status>
  <endpoint>
    <ces-num>ces-num</ces-num>
    <isdn-spid>isdn-spid</isdn-spid>
    <endpoint-state>endpoint-state</endpoint-state>
    <usid>usid</usid>
    <tid>tid</tid>
  </endpoint>
</endpoint-status>
```

Description Detailed output for one endpoint.

Contents <ces-num>—Connection Endpoint Suffix number.

<endpoint-state>—State of the endpoint.

<isdn-spid>—Configured ISDN SPID.

<tid>—Terminal identifier.

<usid>—User service identifier.

<endpoint-status>

Usage

```
<isdn-config-options>
  <endpoint-status>
    <endpoint>...</endpoint>
  </endpoint-status>
</isdn-config-options>
```

Description ISDN endpoint status.

Contents <endpoint>—Detailed output for one endpoint.

<isdn-call>

Usage

```
<isdn-calls | isdn-call-history>
  <isdn-call>
    <bc-interface-name>bc-interface-name</bc-interface-name>
    <call-status>call-status</call-status>
    <error-code>error-code</error-code>
    <call-duration>call-duration</call-duration>
    <call-direction>call-direction</call-direction>
    <called-number>called-number</called-number>
    <calling-number>calling-number</calling-number>
  </isdn-call>
</isdn-calls | isdn-call-history>
```

Description No documentation is available yet.

Contents <bc-interface-name>—Interface name.

<call-direction>—Direction of call (incoming or outgoing).

<call-duration>—Duration for which call has been on.

<call-status>—Current status of call.

<called-number>—Number to which call was made.

<calling-number>—Number from which call was made.

<error-code>—Error code as returned by ISDN stack.

<isdn-call-history>

Usage

```
<rpc-reply>
  <isdn-call-history>
    <isdn-call>...</isdn-call>
  </isdn-call-history>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isdn-call>—No documentation is available yet.

<isdn-calls>

Usage

```
<rpc-reply>
  <isdn-calls>
    <isdn-call>...</isdn-call>
  </isdn-calls>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isdn-call>—No documentation is available yet.

<isdn-config-options>

Usage

```
<rpc-reply>
  <isdn-config-options>
    <isdn-switch-type>isdn-switch-type</isdn-switch-type>
    <isdn-interface-type>isdn-interface-type</isdn-interface-type>
    <isdn-calling-number>isdn-calling-number</isdn-calling-number>
    <isdn-timer-t306>isdn-timer-t306</isdn-timer-t306>
    <isdn-timer-t310>isdn-timer-t310</isdn-timer-t310>
    <isdn-tei-option>isdn-tei-option</isdn-tei-option>
    <endpoint-status>...</endpoint-status>
  </isdn-config-options>
</rpc-reply>
```

Description No documentation is available yet.

Contents <endpoint-status>—ISDN endpoint status.

<isdn-calling-number>—ISDN calling number configured.

<isdn-interface-type>—ISDN interface type configured.

<isdn-switch-type>—ISDN switch type configured.

<isdn-tei-option>—ISDN tei negotiation.

<isdn-timer-t306>—ISDN timer t306 value.

<isdn-timer-t310>—ISDN timer t310 value.

<isdn-status>

Usage

```
<rpc-reply>
  <isdn-status>
    <isdn-interface-name>isdn-interface-name</isdn-interface-name>
    <layer1-status>layer1-status</layer1-status>
    <q921-status>...</q921-status>
    <q931-status>...</q931-status>
  </isdn-status>
</rpc-reply>
```

Description Isdn stack status.

Contents <isdn-interface-name>—Interface name.

<layer1-status>—Layer 1 status.

<q921-status>—Q921 status.

<q931-status>—Q931 layer 3 status.

<q921-statistics>

Usage

```
<rpc-reply>
  <q921-statistics>
    <info-frame-sent>info-frame-sent</info-frame-sent>
    <rr-frame-sent>rr-frame-sent</rr-frame-sent>
    <rnr-frame-sent>rnr-frame-sent</rnr-frame-sent>
    <rej-frame-sent>rej-frame-sent</rej-frame-sent>
    <sabme-frame-sent>sabme-frame-sent</sabme-frame-sent>
    <disc-frame-sent>disc-frame-sent</disc-frame-sent>
    <ua-frame-sent>ua-frame-sent</ua-frame-sent>
    <dm-frame-sent>dm-frame-sent</dm-frame-sent>
    <frmr-frame-sent>frmr-frame-sent</frmr-frame-sent>
    <xid-frame-sent>xid-frame-sent</xid-frame-sent>
    <ui-frame-sent>ui-frame-sent</ui-frame-sent>
    <info-frame-recv>info-frame-recv</info-frame-recv>
    <rr-frame-recv>rr-frame-recv</rr-frame-recv>
    <rnr-frame-recv>rnr-frame-recv</rnr-frame-recv>
    <rej-frame-recv>rej-frame-recv</rej-frame-recv>
    <sabme-frame-recv>sabme-frame-recv</sabme-frame-recv>
    <disc-frame-recv>disc-frame-recv</disc-frame-recv>
    <ua-frame-recv>ua-frame-recv</ua-frame-recv>
    <dm-frame-recv>dm-frame-recv</dm-frame-recv>
    <frmr-frame-recv>frmr-frame-recv</frmr-frame-recv>
    <xid-frame-recv>xid-frame-recv</xid-frame-recv>
    <ui-frame-recv>ui-frame-recv</ui-frame-recv>
  </q921-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<disc-frame-recv>—Number of Disconnect (DISC) frames received.

<disc-frame-sent>—Number of Disconnect (DISC) frames sent.

<dm-frame-recv>—Number of Disconnect Mode (DM) frames received.

<dm-frame-sent>—Number of Disconnect Mode (DM) frames sent.

<frmr-frame-recv>—Number of Frame Reject (FRMR) frames received.

<frmr-frame-sent>—Number of Frame Reject (FRMR) frames sent.

<info-frame-recv>—Number of Information (INFO) frames received.

<info-frame-sent>—Number of Information (INFO) frames sent.

<rej-frame-recv>—Number of Reject (REJ) frames received.

<rej-frame-sent>—Number of Reject (REJ) frames sent.

<rnr-frame-recv>—Number of Receive Not Ready (RNR) frames received.

<rnr-frame-sent>—Number of Receive Not Ready (RNR) frames sent.

<rr-frame-recv>—Number of Receive Ready (RR) frames received.

<rr-frame-sent>—Number of Receive Ready (RR) frames sent.

<sabme-frame-recv>—Number of Set Asynchronous Balanced Mode Extended (SABME) frames received.

<sabme-frame-sent>—Number of Set Asynchronous Balanced Mode Extended (SABME) frames sent.

<ua-frame-recv>—Number of Unnumbered Acknowledgment (UA) frames received.

<ua-frame-sent>—Number of Unnumbered Acknowledgment (UA) frames sent.

<ui-frame-recv>—Number of Unnumbered Information (UI) frames received.

<ui-frame-sent>—Number of Unnumbered Information (UI) frames sent.

<xid-frame-recv>—Number of Xid (XID) frames received.

<xid-frame-sent>—Number of Xid (XID) frames sent.

<q921-status>

Usage

```
<isdn-status>
  <q921-status>
    <ces-status>...</ces-status>
  </q921-status>
</isdn-status>
```

Description Q921 status.

Contents <ces-status>—Connection Endpoint Suffix status.

<q931-statistics>

Usage

```
<rpc-reply>
  <q931-statistics>
    <alerting-sent>alerting-sent</alerting-sent>
    <call-proceed-sent>call-proceed-sent</call-proceed-sent>
    <conn-sent>conn-sent</conn-sent>
    <conn-ack-sent>conn-ack-sent</conn-ack-sent>
    <progress-sent>progress-sent</progress-sent>
    <setup-sent>setup-sent</setup-sent>
    <setup-ack-sent>setup-ack-sent</setup-ack-sent>
    <disc-sent>disc-sent</disc-sent>
    <rel-sent>rel-sent</rel-sent>
    <rel-cmplt-sent>rel-cmplt-sent</rel-cmplt-sent>
    <rst-sent>rst-sent</rst-sent>
    <rst-ack-sent>rst-ack-sent</rst-ack-sent>
    <info-sent>info-sent</info-sent>
    <notify-sent>notify-sent</notify-sent>
    <stat-sent>stat-sent</stat-sent>
    <stat-enq-sent>stat-enq-sent</stat-enq-sent>
    <alerting-recv>alerting-recv</alerting-recv>
    <call-proceed-recv>call-proceed-recv</call-proceed-recv>
    <conn-recv>conn-recv</conn-recv>
    <conn-ack-recv>conn-ack-recv</conn-ack-recv>
    <progress-recv>progress-recv</progress-recv>
    <setup-recv>setup-recv</setup-recv>
    <setup-ack-recv>setup-ack-recv</setup-ack-recv>
    <disc-recv>disc-recv</disc-recv>
    <rel-recv>rel-recv</rel-recv>
    <rel-cmplt-recv>rel-cmplt-recv</rel-cmplt-recv>
    <rst-recv>rst-recv</rst-recv>
    <rst-ack-recv>rst-ack-recv</rst-ack-recv>
    <info-recv>info-recv</info-recv>
    <notify-recv>notify-recv</notify-recv>
    <stat-recv>stat-recv</stat-recv>
    <stat-enq-recv>stat-enq-recv</stat-enq-recv>
  </q931-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <alerting-recv>—Number of ALERTING messages received.

<alerting-sent>—Number of ALERTING messages sent.

<call-proceed-recv>—Number of CALL PROCEED messages received.

<call-proceed-sent>—Number of CALL PROCEED messages sent.

<conn-ack-recv>—Number of CONNECT ACK messages received.

<conn-ack-sent>—Number of CONNECT ACK messages sent.

<conn-recv>—Number of CONNECT messages received.

<conn-sent>—Number of CONNECT messages sent.

<disc-recv>—Number of DISCONNECT messages received.

<disc-sent>—Number of DISCONNECT messages sent.

<info-recv>—Number of INFORMATION messages received.

<info-sent>—Number of INFORMATION messages sent.

<notify-recv>—Number of NOTIFICATION messages received.

<notify-sent>—Number of NOTIFICATION messages sent.

<progress-recv>—Number of PROGRESS messages received.

<progress-sent>—Number of PROGRESS messages sent.

<rel-cmplt-recv>—Number of RELEASE COMPLETION messages received.

<rel-cmplt-sent>—Number of RELEASE COMPLETION messages sent.

<rel-recv>—Number of RELEASE messages received.

<rel-sent>—Number of RELEASE messages sent.

<rst-ack-recv>—Number of RESTART ACK messages received.

<rst-ack-sent>—Number of RESTART ACK messages sent.

<rst-recv>—Number of RESTART messages received.

<rst-sent>—Number of RESTART messages sent.

<setup-ack-recv>—Number of SETUP ACK messages received.

<setup-ack-sent>—Number of SETUP ACK messages sent.

<setup-recv>—Number of SETUP messages received.

<setup-sent>—Number of SETUP messages sent.

<stat-enq-recv>—Number of STATUS ENQUIRY messages received.

<stat-enq-sent>—Number of STATUS ENQUIRY messages sent.

<stat-recv>—Number of STATUS messages received.

<stat-sent>—Number of STATUS messages sent.

<q931-status>

Usage
```
<isdn-status>
  <q931-status>
    <active-num-calls>active-num-calls</active-num-calls>
  </q931-status>
</isdn-status>
```

Description Q931 layer 3 status.

Contents <active-num-calls>—Number of active calls.

Summary of JNX Example Response Tags

This section lists JUNOS XML tags that contain operational information about JNX example. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-jnx-example. To review the DTD for the tags, see "DTD for JNX Example Response Tags" on page 2231.

<jnx-example-data>

Usage

```
<jnx-example-data-information>
  <jnx-example-data>
    <jnx-example-data-name>jnx-example-data-name</jnx-example-data-name>
    <jnx-example-data-description>jnx-example-data-description
                </jnx-example-data-description>
    <jnx-example-data-type>jnx-example-data-type</jnx-example-data-type>
    <jnx-example-data-value>jnx-example-data-value</jnx-example-data-value>
  </jnx-example-data>
</jnx-example-data-information>
```

Description No documentation is available yet.

Contents <jnx-example-data-description>—Example data description.

<jnx-example-data-name>—Example data identifier.

<jnx-example-data-type>—Example data type.

<jnx-example-data-value>—Example data value.

<jnx-example-data-information>

Usage

```
<rpc-reply>
  <jnx-example-data-information>
    <jnx-example-data>...</jnx-example-data>
  </jnx-example-data-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <jnx-example-data>—No documentation is available yet.

<jnx-example-statistics>

Usage

```
<rpc-reply>
  <jnx-example-statistics>
    <cpu-usage>cpu-usage</cpu-usage>
    <memory-usage>memory-usage</memory-usage>
  </jnx-example-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <cpu-usage>—CPU utilization (percent).

<memory-usage>—Memory Usage (KBytes).

Summary of JDiameterd Response Tags

This section lists JUNOS XML tags that contain operational information about the JDiameterd function. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-jdiameterd. To review the DTD for the tags, see "DTD for JDiameterd Response Tags" on page 2233.

<jdiameterd-function-brief>

Usage

```
<jdiameterd-function-information>
  <jdiameterd-function-brief>
    <jdiameterd-function-name>jdiameterd-function-name</jdiameterd-function-name>
    <jdiameterd-function-state>jdiameterd-function-state
                </jdiameterd-function-state>

<jdiameterd-function-upstream-transaction-utilization>jdiameterd-function-upstream-tran
saction-utilization
                </jdiameterd-function-upstream-transaction-utilization>

<jdiameterd-function-downstream-transaction-utilization>jdiameterd-function-downstrea
m-transaction-utilization
                </jdiameterd-function-downstream-transaction-utilization>

<jdiameterd-function-network-transmission-queue-memory-utilization>jdiameterd-functio
n-network-transmission-queue-memory-utilization

</jdiameterd-function-network-transmission-queue-memory-utilization>

<jdiameterd-function-function-transmission-queue-memory-utilization>jdiameterd-functio
n-function-transmission-queue-memory-utilization

</jdiameterd-function-function-transmission-queue-memory-utilization>
    <jdiameterd-function-routed-dests>jdiameterd-function-routed-dests
                </jdiameterd-function-routed-dests>
  </jdiameterd-function-brief>
</jdiameterd-function-information>
```

Description Diameter function.

Contents

<jdiameterd-function-downstream-transaction-utilization>—The utilization of downstream transactions for a function.

<jdiameterd-function-function-transmission-queue-memory-utilization>—The utilization on memory used by messages queued for transmission to a function.

<jdiameterd-function-name>—Function name.

<jdiameterd-function-network-transmission-queue-memory-utilization>—The utilization of memory used by function messages queued for network transmission.

<jdiameterd-function-routed-dests>—The number of routed destinations registered by a function.

<jdiameterd-function-state>—Function process state.

<jdiameterd-function-upstream-transaction-utilization>—The utilization of upstream transactions for a function.

<jdiameterd-function-data>

Usage

```
<jdiameterd-function-information>
  <jdiameterd-function-data>
    <jdiameterd-function-name>jdiameterd-function-name</jdiameterd-function-name>
    <jdiameterd-function-state>jdiameterd-function-state
                </jdiameterd-function-state>

<jdiameterd-function-upstream-transaction-utilization>jdiameterd-function-upstream-tran
saction-utilization
                </jdiameterd-function-upstream-transaction-utilization>

<jdiameterd-function-downstream-transaction-utilization>jdiameterd-function-downstrea
m-transaction-utilization
                </jdiameterd-function-downstream-transaction-utilization>

<jdiameterd-function-network-transmission-queue-memory-utilization>jdiameterd-functio
n-network-transmission-queue-memory-utilization

</jdiameterd-function-network-transmission-queue-memory-utilization>

<jdiameterd-function-function-transmission-queue-memory-utilization>jdiameterd-functio
n-function-transmission-queue-memory-utilization

</jdiameterd-function-function-transmission-queue-memory-utilization>
    <jdiameterd-function-routed-dests>jdiameterd-function-routed-dests
                </jdiameterd-function-routed-dests>

<jdiameterd-function-network-transmission-queue-requests>jdiameterd-function-networ
k-transmission-queue-requests
                </jdiameterd-function-network-transmission-queue-requests>

<jdiameterd-function-expected-answers-from-network>jdiameterd-function-expected-ans
wers-from-network
                </jdiameterd-function-expected-answers-from-network>

<jdiameterd-function-function-transmission-queue-answers>jdiameterd-function-function
-transmission-queue-answers
                </jdiameterd-function-function-transmission-queue-answers>

<jdiameterd-function-upstream-transaction-count>jdiameterd-function-upstream-transact
ion-count
                </jdiameterd-function-upstream-transaction-count>

<jdiameterd-function-upstream-transaction-limit>jdiameterd-function-upstream-transacti
on-limit
                </jdiameterd-function-upstream-transaction-limit>

<jdiameterd-function-function-transmission-queue-requests>jdiameterd-function-functio
n-transmission-queue-requests
                </jdiameterd-function-function-transmission-queue-requests>

<jdiameterd-function-expected-answers-from-function>jdiameterd-function-expected-ans
wers-from-function
```

```
                    </jdiameterd-function-expected-answers-from-function>

<jdiameterd-function-network-transmission-queue-answers>jdiameterd-function-network
-transmission-queue-answers
                    </jdiameterd-function-network-transmission-queue-answers>

<jdiameterd-function-downstream-transaction-count>jdiameterd-function-downstream-tr
ansaction-count
                    </jdiameterd-function-downstream-transaction-count>

<jdiameterd-function-downstream-transaction-limit>jdiameterd-function-downstream-tra
nsaction-limit
                    </jdiameterd-function-downstream-transaction-limit>

<jdiameterd-function-network-transmission-queue-memory>jdiameterd-function-network-
transmission-queue-memory
                    </jdiameterd-function-network-transmission-queue-memory>

<jdiameterd-function-network-transmission-queue-memory-limit>jdiameterd-function-net
work-transmission-queue-memory-limit
                    </jdiameterd-function-network-transmission-queue-memory-limit>

<jdiameterd-function-function-transmission-queue-memory>jdiameterd-function-function-
transmission-queue-memory
                    </jdiameterd-function-function-transmission-queue-memory>

<jdiameterd-function-function-transmission-queue-memory-limit>jdiameterd-function-fun
ction-transmission-queue-memory-limit
                    </jdiameterd-function-function-transmission-queue-memory-limit>
  </jdiameterd-function-data>
</jdiameterd-function-information>
```

Description Diameter function.

Contents <jdiameterd-function-downstream-transaction-count>—The number of downstream transactions for a function.

<jdiameterd-function-downstream-transaction-limit>—The limit of downstream transactions for a function.

<jdiameterd-function-downstream-transaction-utilization>—The utilization of downstream transactions for a function.

<jdiameterd-function-expected-answers-from-function>—The total number of answers expected from functions.

<jdiameterd-function-expected-answers-from-network>—The number of function answers expected from the network.

<jdiameterd-function-function-transmission-queue-answers>—The number of function answers queued to a function.

<jdiameterd-function-function-transmission-queue-memory>—The memory used by messages queued for transmission to a function.

<jdiameterd-function-function-transmission-queue-memory-limit>—The limit on memory used by messages queued for transmission to a function.

<jdiameterd-function-function-transmission-queue-memory-utilization>—The utilization on memory used by messages queued for transmission to a function.

<jdiameterd-function-function-transmission-queue-requests>—The number of requests queued for transmission to a function.

<jdiameterd-function-name>—Function name.

<jdiameterd-function-network-transmission-queue-answers>—The number of answers queued for network transmission.

<jdiameterd-function-network-transmission-queue-memory>—The memory used by function messages queued for network transmission.

<jdiameterd-function-network-transmission-queue-memory-limit>—The limit on memory used by function messages queued for network transmission.

<jdiameterd-function-network-transmission-queue-memory-utilization>—The utilization of memory used by function messages queued for network transmission.

<jdiameterd-function-network-transmission-queue-requests>—The number of function requests queued for network transmission.

<jdiameterd-function-routed-dests>—The number of routed destinations registered by a function.

<jdiameterd-function-state>—Function process state.

<jdiameterd-function-upstream-transaction-count>—The number of upstream transactions for a function.

<jdiameterd-function-upstream-transaction-limit>—The limit of upstream transactions for a function.

<jdiameterd-function-upstream-transaction-utilization>—The utilization of upstream transactions for a function.

<jdiameterd-function-information>

Usage

```
<rpc-reply>
  <jdiameterd-function-information>
    <jdiameterd-function-list>...</jdiameterd-function-list>
    <jdiameterd-function-brief>...</jdiameterd-function-brief>
    <jdiameterd-function-data>...</jdiameterd-function-data>
    <jdiameterd-function-not-found>jdiameterd-function-not-found
                </jdiameterd-function-not-found>
    <jdiameterd-function-error>jdiameterd-function-error
                </jdiameterd-function-error>
  </jdiameterd-function-information>
</rpc-reply>
```

Description Diameter function informaiton.

Contents <jdiameterd-function-brief>—Diameter function.

<jdiameterd-function-data>—Diameter function.

<jdiameterd-function-error>—No documentation is available yet.

<jdiameterd-function-list>—Diameter functions.

<jdiameterd-function-not-found>—Requested function is not found.

<jdiameterd-function-list>

Usage

<jdiameterd-node-information | jdiameterd-function-information>
<jdiameterd-function-list>
<jdiameterd-function-name>*jdiameterd-function-name*</jdiameterd-function-name>
<jdiameterd-function-state>*jdiameterd-function-state*
</jdiameterd-function-state>

<jdiameterd-function-upstream-transaction-utilization>*jdiameterd-function-upstream-transaction-utilization*
</jdiameterd-function-upstream-transaction-utilization>

<jdiameterd-function-downstream-transaction-utilization>*jdiameterd-function-downstream-transaction-utilization*
</jdiameterd-function-downstream-transaction-utilization>

<jdiameterd-function-network-transmission-queue-memory-utilization>*jdiameterd-function-network-transmission-queue-memory-utilization*

</jdiameterd-function-network-transmission-queue-memory-utilization>

<jdiameterd-function-function-transmission-queue-memory-utilization>*jdiameterd-function-function-transmission-queue-memory-utilization*

</jdiameterd-function-function-transmission-queue-memory-utilization>
<jdiameterd-function-routed-dests>*jdiameterd-function-routed-dests*
</jdiameterd-function-routed-dests>
</jdiameterd-function-list>
</jdiameterd-node-information | jdiameterd-function-information>

Description Diameter functions.

Contents

<jdiameterd-function-downstream-transaction-utilization>—The utilization of downstream transactions for a function.

<jdiameterd-function-function-transmission-queue-memory-utilization>—The utilization on memory used by messages queued for transmission to a function.

<jdiameterd-function-name>—Function name.

<jdiameterd-function-network-transmission-queue-memory-utilization>—The utilization of memory used by function messages queued for network transmission.

<jdiameterd-function-routed-dests>—The number of routed destinations registered by a function.

<jdiameterd-function-state>—Function process state.

<jdiameterd-function-upstream-transaction-utilization>—The utilization of upstream transactions for a function.

<jdiameterd-function-statistics-brief>

Usage <jdiameterd-function-statistics-information>
<jdiameterd-function-statistics-brief>
<jdiameterd-function-name>*jdiameterd-function-name*</jdiameterd-function-name>
<jdiameterd-function-connection-count>*jdiameterd-function-connection-count*
</jdiameterd-function-connection-count>

<jdiameterd-function-network-received-requests-deliveries>*jdiameterd-function-network-received-requests-deliveries*
</jdiameterd-function-network-received-requests-deliveries>

<jdiameterd-function-network-received-requests-deliveries-total>*jdiameterd-function-network-received-requests-deliveries-total*
</jdiameterd-function-network-received-requests-deliveries-total>

<jdiameterd-function-network-received-answer-deliveries>*jdiameterd-function-network-received-answer-deliveries*
</jdiameterd-function-network-received-answer-deliveries>

<jdiameterd-function-network-received-answer-deliveries-total>*jdiameterd-function-network-received-answer-deliveries-total*
</jdiameterd-function-network-received-answer-deliveries-total>

<jdiameterd-function-network-received-message-deliveries>*jdiameterd-function-network-received-message-deliveries*
</jdiameterd-function-network-received-message-deliveries>

<jdiameterd-function-network-received-message-deliveries-total>*jdiameterd-function-network-received-message-deliveries-total*
</jdiameterd-function-network-received-message-deliveries-total>

<jdiameterd-function-function-received-requests-forwarded>*jdiameterd-function-function-received-requests-forwarded*
</jdiameterd-function-function-received-requests-forwarded>

<jdiameterd-function-function-received-requests-forwarded-total>*jdiameterd-function-function-received-requests-forwarded-total*
</jdiameterd-function-function-received-requests-forwarded-total>

<jdiameterd-function-function-received-answers-forwarded>*jdiameterd-function-function-received-answers-forwarded*
</jdiameterd-function-function-received-answers-forwarded>

<jdiameterd-function-function-received-answers-forwarded-total>*jdiameterd-function-function-received-answers-forwarded-total*
</jdiameterd-function-function-received-answers-forwarded-total>

<jdiameterd-function-function-received-messages-forwarded>*jdiameterd-function-function-received-messages-forwarded*
</jdiameterd-function-function-received-messages-forwarded>

<jdiameterd-function-function-received-messages-forwarded-total>*jdiameterd-function-function-received-messages-forwarded-total*

```
                    </jdiameterd-function-function-received-messages-forwarded-total>
  </jdiameterd-function-statistics-brief>
</jdiameterd-function-statistics-information>
```

Description Function statistics.

Contents <jdiameterd-function-connection-count>—Total number of connections from function.

<jdiameterd-function-function-received-answers-forwarded>—The number of forwarded answerss since last connection.

<jdiameterd-function-function-received-answers-forwarded-total>—The total number of forwarded answers.

<jdiameterd-function-function-received-messages-forwarded>—The number of forwarded messages since last connection.

<jdiameterd-function-function-received-messages-forwarded-total>—The total number of forwarded messages.

<jdiameterd-function-function-received-requests-forwarded>—The number of forwarded requests since last connection.

<jdiameterd-function-function-received-requests-forwarded-total>—The total number of forwarded requests.

<jdiameterd-function-name>—Function name.

<jdiameterd-function-network-received-answer-deliveries>—The number of answers received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-answer-deliveries-total>—The total number of answers received from the network and delivered to a function.

<jdiameterd-function-network-received-message-deliveries>—The number of messages received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-message-deliveries-total>—The total number message received from the network and delivered to a function.

<jdiameterd-function-network-received-requests-deliveries>—The number of requests received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-requests-deliveries-total>—The total number of requests received from the network and delivered to a function.

<jdiameterd-function-statistics-data>

Usage <jdiameterd-function-statistics-information>
<jdiameterd-function-statistics-data>
<jdiameterd-function-name>*jdiameterd-function-name*</jdiameterd-function-name>
<jdiameterd-function-connection-count>*jdiameterd-function-connection-count*
</jdiameterd-function-connection-count>

<jdiameterd-function-network-received-requests-deliveries>*jdiameterd-function-network-received-requests-deliveries*
</jdiameterd-function-network-received-requests-deliveries>

<jdiameterd-function-network-received-requests-deliveries-total>*jdiameterd-function-network-received-requests-deliveries-total*
</jdiameterd-function-network-received-requests-deliveries-total>

<jdiameterd-function-network-received-answer-deliveries>*jdiameterd-function-network-received-answer-deliveries*
</jdiameterd-function-network-received-answer-deliveries>

<jdiameterd-function-network-received-answer-deliveries-total>*jdiameterd-function-network-received-answer-deliveries-total*
</jdiameterd-function-network-received-answer-deliveries-total>

<jdiameterd-function-network-received-message-deliveries>*jdiameterd-function-network-received-message-deliveries*
</jdiameterd-function-network-received-message-deliveries>

<jdiameterd-function-network-received-message-deliveries-total>*jdiameterd-function-network-received-message-deliveries-total*
</jdiameterd-function-network-received-message-deliveries-total>

<jdiameterd-function-function-received-requests-forwarded>*jdiameterd-function-function-received-requests-forwarded*
</jdiameterd-function-function-received-requests-forwarded>

<jdiameterd-function-function-received-requests-forwarded-total>*jdiameterd-function-function-received-requests-forwarded-total*
</jdiameterd-function-function-received-requests-forwarded-total>

<jdiameterd-function-function-received-answers-forwarded>*jdiameterd-function-function-received-answers-forwarded*
</jdiameterd-function-function-received-answers-forwarded>

<jdiameterd-function-function-received-answers-forwarded-total>*jdiameterd-function-function-received-answers-forwarded-total*
</jdiameterd-function-function-received-answers-forwarded-total>

<jdiameterd-function-function-received-messages-forwarded>*jdiameterd-function-function-received-messages-forwarded*
</jdiameterd-function-function-received-messages-forwarded>

<jdiameterd-function-function-received-messages-forwarded-total>*jdiameterd-function-function-received-messages-forwarded-total*

</jdiameterd-function-function-received-messages-forwarded-total>

<jdiameterd-function-network-received-requests-over-limit>*jdiameterd-function-network-received-requests-over-limit*
</jdiameterd-function-network-received-requests-over-limit>

<jdiameterd-function-network-received-requests-over-limit-total>*jdiameterd-function-network-received-requests-over-limit-total*
</jdiameterd-function-network-received-requests-over-limit-total>

<jdiameterd-function-network-received-answers-over-limit>*jdiameterd-function-network-received-answers-over-limit*
</jdiameterd-function-network-received-answers-over-limit>

<jdiameterd-function-network-received-answers-over-limit-total>*jdiameterd-function-network-received-answers-over-limit-total*
</jdiameterd-function-network-received-answers-over-limit-total>

<jdiameterd-function-network-received-messages-over-limit>*jdiameterd-function-network-received-messages-over-limit*
</jdiameterd-function-network-received-messages-over-limit>

<jdiameterd-function-network-received-messages-over-limit-total>*jdiameterd-function-network-received-messages-over-limit-total*
</jdiameterd-function-network-received-messages-over-limit-total>

<jdiameterd-function-network-received-requests-delivery-fails>*jdiameterd-function-network-received-requests-delivery-fails*
</jdiameterd-function-network-received-requests-delivery-fails>

<jdiameterd-function-network-received-requests-delivery-fails-total>*jdiameterd-function-network-received-requests-delivery-fails-total*
</jdiameterd-function-network-received-requests-delivery-fails-total>

<jdiameterd-function-network-received-answer-delivery-fails>*jdiameterd-function-network-received-answer-delivery-fails*
</jdiameterd-function-network-received-answer-delivery-fails>

<jdiameterd-function-network-received-answer-delivery-fails-total>*jdiameterd-function-network-received-answer-delivery-fails-total*
</jdiameterd-function-network-received-answer-delivery-fails-total>

<jdiameterd-function-network-received-message-delivery-fails>*jdiameterd-function-network-received-message-delivery-fails*
</jdiameterd-function-network-received-message-delivery-fails>

<jdiameterd-function-network-received-message-delivery-fails-total>*jdiameterd-function-network-received-message-delivery-fails-total*

</jdiameterd-function-network-received-message-delivery-fails-total>

<jdiameterd-function-function-received-requests-over-limit>*jdiameterd-function-function-received-requests-over-limit*
</jdiameterd-function-function-received-requests-over-limit>

<jdiameterd-function-function-received-requests-over-limit-total>*jdiameterd-function-function-received-requests-over-limit-total*
</jdiameterd-function-function-received-requests-over-limit-total>

<jdiameterd-function-function-received-answers-over-limit>*jdiameterd-function-function-received-answers-over-limit*
</jdiameterd-function-function-received-answers-over-limit>

<jdiameterd-function-function-received-answers-over-limit-total>*jdiameterd-function-function-received-answers-over-limit-total*
</jdiameterd-function-function-received-answers-over-limit-total>

<jdiameterd-function-function-received-messages-over-limit>*jdiameterd-function-function-received-messages-over-limit*
</jdiameterd-function-function-received-messages-over-limit>

<jdiameterd-function-function-received-messages-over-limit-total>*jdiameterd-function-function-received-messages-over-limit-total*
</jdiameterd-function-function-received-messages-over-limit-total>

<jdiameterd-function-function-receive-request-failures>*jdiameterd-function-function-receive-request-failures*
</jdiameterd-function-function-receive-request-failures>

<jdiameterd-function-function-receive-request-failures-total>*jdiameterd-function-function-receive-request-failures-total*
</jdiameterd-function-function-receive-request-failures-total>

<jdiameterd-function-function-receive-answer-failures>*jdiameterd-function-function-receive-answer-failures*
</jdiameterd-function-function-receive-answer-failures>

<jdiameterd-function-function-receive-answer-failures-total>*jdiameterd-function-function-receive-answer-failures-total*
</jdiameterd-function-function-receive-answer-failures-total>

<jdiameterd-function-function-receive-message-failures>*jdiameterd-function-function-receive-message-failures*
</jdiameterd-function-function-receive-message-failures>

<jdiameterd-function-function-receive-message-failures-total>*jdiameterd-function-function-receive-message-failures-total*
</jdiameterd-function-function-receive-message-failures-total>
</jdiameterd-function-statistics-data>
</jdiameterd-function-statistics-information>

Description Function statistics.

Contents <jdiameterd-function-connection-count>—Total number of connections from function.

<jdiameterd-function-function-receive-answer-failures>—The number of answer messages failed ot be processed since last connection.

<jdiameterd-function-function-receive-answer-failures-total>—The total number of answer messages failed to be processed.

<jdiameterd-function-function-receive-message-failures>—The number of messages failed ot be processed since last connection.

<jdiameterd-function-function-receive-message-failures-total>—The total number of messages failed to be processed.

<jdiameterd-function-function-receive-request-failures>—The number of request messages failed ot be processed since last connection.

<jdiameterd-function-function-receive-request-failures-total>—The total number of request messages failed to be processed.

<jdiameterd-function-function-received-answers-forwarded>—The number of forwarded answerss since last connection.

<jdiameterd-function-function-received-answers-forwarded-total>—The total number of forwarded answers.

<jdiameterd-function-function-received-answers-over-limit>—The number of over limit answer messages since last connection.

<jdiameterd-function-function-received-answers-over-limit-total>—The total number of over limit answer messages.

<jdiameterd-function-function-received-messages-forwarded>—The number of forwarded messages since last connection.

<jdiameterd-function-function-received-messages-forwarded-total>—The total number of forwarded messages.

<jdiameterd-function-function-received-messages-over-limit>—The number of over limit messages since last connection.

<jdiameterd-function-function-received-messages-over-limit-total>—The total number of over limit messages.

<jdiameterd-function-function-received-requests-forwarded>—The number of forwarded requests since last connection.

<jdiameterd-function-function-received-requests-forwarded-total>—The total number of forwarded requests.

<jdiameterd-function-function-received-requests-over-limit>—The number of over limit request messages since last connection.

<jdiameterd-function-function-received-requests-over-limit-total>—The total number of over limit request messages.

<jdiameterd-function-name>—Function name.

<jdiameterd-function-network-received-answer-deliveries>—The number of answers received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-answer-deliveries-total>—The total number of answers received from the network and delivered to a function.

<jdiameterd-function-network-received-answer-delivery-fails>—The number of answers received from the network since last connection that failed to be delivered to a function.

<jdiameterd-function-network-received-answer-delivery-fails-total>—The total number of answers received from the network that fialed to be delivered to a function.

<jdiameterd-function-network-received-answers-over-limit>—The number of over limit answers received from the network since last connection.

<jdiameterd-function-network-received-answers-over-limit-total>—The total number of over limit answers received from the network.

<jdiameterd-function-network-received-message-deliveries>—The number of messages received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-message-deliveries-total>—The total number message received from the network and delivered to a function.

<jdiameterd-function-network-received-message-delivery-fails>—The number of messages received from the network since last connection that failed to be delivered to a function.

<jdiameterd-function-network-received-message-delivery-fails-total>—The total number of messages received from the network that fialed to be delivered to a function.

<jdiameterd-function-network-received-messages-over-limit>—The number of over limit messages received from the network since last connection.

<jdiameterd-function-network-received-messages-over-limit-total>—The total number of over limit messages received from the network.

<jdiameterd-function-network-received-requests-deliveries>—The number of requests received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-requests-deliveries-total>—The total number of requests received from the network and delivered to a function.

<jdiameterd-function-network-received-requests-delivery-fails>—The number of requests received from the network since last connection that failed to be delivered to a function.

<jdiameterd-function-network-received-requests-delivery-fails-total>—The total number of requests received from the network that fialed to be delivered to a function.

<jdiameterd-function-network-received-requests-over-limit>—The number of over limit requests received from the network since last connection.

<jdiameterd-function-network-received-requests-over-limit-total>—The total number of over limit requests received from the network.

<jdiameterd-function-statistics-information>

Usage

```
<rpc-reply>
  <jdiameterd-function-statistics-information>
    <jdiameterd-function-statistics-list>...</jdiameterd-function-statistics-list>
    <jdiameterd-function-statistics-brief>...
                </jdiameterd-function-statistics-brief>
    <jdiameterd-function-statistics-data>...</jdiameterd-function-statistics-data>
    <jdiameterd-function-statistics-not-found>jdiameterd-function-statistics-not-found
                </jdiameterd-function-statistics-not-found>
    <jdiameterd-function-statistics-error>jdiameterd-function-statistics-error
                </jdiameterd-function-statistics-error>
  </jdiameterd-function-statistics-information>
</rpc-reply>
```

Description Diameter function statistics.

Contents <jdiameterd-function-statistics-brief>—Function statistics.

<jdiameterd-function-statistics-data>—Function statistics.

<jdiameterd-function-statistics-error>—No documentation is available yet.

<jdiameterd-function-statistics-list>—Function statistics summary.

<jdiameterd-function-statistics-not-found>—Requested function is not found.

<jdiameterd-function-statistics-list>

Usage

```
<jdiameterd-function-statistics-information>
  <jdiameterd-function-statistics-list>
    <jdiameterd-function-name>jdiameterd-function-name</jdiameterd-function-name>

<jdiameterd-function-network-received-requests-deliveries>jdiameterd-function-network-r
eceived-requests-deliveries
            </jdiameterd-function-network-received-requests-deliveries>

<jdiameterd-function-network-received-answer-deliveries>jdiameterd-function-network-re
ceived-answer-deliveries
            </jdiameterd-function-network-received-answer-deliveries>

<jdiameterd-function-network-received-message-deliveries>jdiameterd-function-network-
received-message-deliveries
            </jdiameterd-function-network-received-message-deliveries>

<jdiameterd-function-function-received-requests-forwarded>jdiameterd-function-function-
received-requests-forwarded
            </jdiameterd-function-function-received-requests-forwarded>

<jdiameterd-function-function-received-answers-forwarded>jdiameterd-function-function-
received-answers-forwarded
            </jdiameterd-function-function-received-answers-forwarded>

<jdiameterd-function-function-received-messages-forwarded>jdiameterd-function-functio
n-received-messages-forwarded
            </jdiameterd-function-function-received-messages-forwarded>
  </jdiameterd-function-statistics-list>
</jdiameterd-function-statistics-information>
```

Description Function statistics summary.

Contents

<jdiameterd-function-function-received-answers-forwarded>—The number of forwarded answerss since last connection.

<jdiameterd-function-function-received-messages-forwarded>—The number of forwarded messages since last connection.

<jdiameterd-function-function-received-requests-forwarded>—The number of forwarded requests since last connection.

<jdiameterd-function-name>—Function name.

<jdiameterd-function-network-received-answer-deliveries>—The number of answers received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-message-deliveries>—The number of messages received from the network and delivered to a function since last connection.

<jdiameterd-function-network-received-requests-deliveries>—The number of requests received from the network and delivered to a function since last connection.

<jdiameterd-instance-brief>

Usage

```
<jdiameterd-instance-information>
  <jdiameterd-instance-brief>

<jdiameterd-instance-name>jdiameterd-instance-name</jdiameterd-instance-name>
    <jdiameterd-instance-origin-realm>jdiameterd-instance-origin-realm
                </jdiameterd-instance-origin-realm>
    <jdiameterd-instance-origin-host>jdiameterd-instance-origin-host
                </jdiameterd-instance-origin-host>

<jdiameterd-instance-total-network-elements>jdiameterd-instance-total-network-element
s
                </jdiameterd-instance-total-network-elements>

<jdiameterd-instance-connected-network-elements>jdiameterd-instance-connected-netw
ork-elements
                </jdiameterd-instance-connected-network-elements>
  </jdiameterd-instance-brief>
</jdiameterd-instance-information>
```

Description Diameter instance.

Contents

<jdiameterd-instance-connected-network-elements>—The number of network elements in connected states for an instance.

<jdiameterd-instance-name>—Instance name.

<jdiameterd-instance-origin-host>—The origin host of an instance.

<jdiameterd-instance-origin-realm>—The origin realm of an instance.

<jdiameterd-instance-total-network-elements>—The total number of network elements for an instance.

<jdiameterd-instance-information>

Usage

```
<rpc-reply>
  <jdiameterd-instance-information>
    <jdiameterd-instance-list>...</jdiameterd-instance-list>
    <jdiameterd-instance-brief>...</jdiameterd-instance-brief>
    <jdiameterd-instance-not-found>jdiameterd-instance-not-found
                </jdiameterd-instance-not-found>
    <jdiameterd-instance-error>jdiameterd-instance-error
                </jdiameterd-instance-error>
  </jdiameterd-instance-information>
</rpc-reply>
```

Description Diameter instance informaiton.

Contents <jdiameterd-instance-brief>—Diameter instance.

<jdiameterd-instance-error>—No documentation is available yet.

<jdiameterd-instance-list>—Diameter instances.

<jdiameterd-instance-not-found>—Requested instance is not found.

<jdiameterd-instance-list>

Usage

<jdiameterd-node-information | jdiameterd-instance-information>
<jdiameterd-instance-list>

<jdiameterd-instance-name>*jdiameterd-instance-name*</jdiameterd-instance-name>
<jdiameterd-instance-origin-realm>*jdiameterd-instance-origin-realm*
</jdiameterd-instance-origin-realm>
<jdiameterd-instance-origin-host>*jdiameterd-instance-origin-host*
</jdiameterd-instance-origin-host>

<jdiameterd-instance-total-network-elements>*jdiameterd-instance-total-network-element*
s
</jdiameterd-instance-total-network-elements>

<jdiameterd-instance-connected-network-elements>*jdiameterd-instance-connected-netw*
ork-elements
</jdiameterd-instance-connected-network-elements>
</jdiameterd-instance-list>
</jdiameterd-node-information | jdiameterd-instance-information>

Description

Diameter instances.

Contents

<jdiameterd-instance-connected-network-elements>—The number of network elements in connected states for an instance.

<jdiameterd-instance-name>—Instance name.

<jdiameterd-instance-origin-host>—The origin host of an instance.

<jdiameterd-instance-origin-realm>—The origin realm of an instance.

<jdiameterd-instance-total-network-elements>—The total number of network elements for an instance.

<jdiameterd-network-element-brief>

Usage

```
<jdiameterd-network-element-information>
  <jdiameterd-network-element-brief>
    <jdiameterd-network-element-name>jdiameterd-network-element-name
                </jdiameterd-network-element-name>

<jdiameterd-network-element-instance-name>jdiameterd-network-element-instance-nam
e
                </jdiameterd-network-element-instance-name>
    <jdiameterd-network-element-state>jdiameterd-network-element-state
                </jdiameterd-network-element-state>

<jdiameterd-network-element-primary-peer>jdiameterd-network-element-primary-peer
                </jdiameterd-network-element-primary-peer>

<jdiameterd-network-element-secondary-peer>jdiameterd-network-element-secondary-pe
er
                </jdiameterd-network-element-secondary-peer>
  </jdiameterd-network-element-brief>
</jdiameterd-network-element-information>
```

Description Diameter network-elements.

Contents

<jdiameterd-network-element-instance-name>—Instance name for a network-element.

<jdiameterd-network-element-name>—Network-element name.

<jdiameterd-network-element-primary-peer>—The name of primary peer for a network-element.

<jdiameterd-network-element-secondary-peer>—The name of secondary peer for a network-element.

<jdiameterd-network-element-state>—State of a network-element.

<jdiameterd-network-element-data>

Usage

<jdiameterd-network-element-information>
<jdiameterd-network-element-data>
<jdiameterd-network-element-name>*jdiameterd-network-element-name*
</jdiameterd-network-element-name>

<jdiameterd-network-element-instance-name>*jdiameterd-network-element-instance-name*
</jdiameterd-network-element-instance-name>
<jdiameterd-network-element-state>*jdiameterd-network-element-state*
</jdiameterd-network-element-state>

<jdiameterd-network-element-primary-peer>*jdiameterd-network-element-primary-peer*
</jdiameterd-network-element-primary-peer>

<jdiameterd-network-element-secondary-peer>*jdiameterd-network-element-secondary-peer*
</jdiameterd-network-element-secondary-peer>
<jdiameterd-network-element-total-peers>*jdiameterd-network-element-total-peers*
</jdiameterd-network-element-total-peers>

<jdiameterd-network-element-activated-peers>*jdiameterd-network-element-activated-peers*
</jdiameterd-network-element-activated-peers>
<jdiameterd-network-element-open-peers>*jdiameterd-network-element-open-peers*
</jdiameterd-network-element-open-peers>
<jdiameterd-network-element-total-routes>*jdiameterd-network-element-total-routes*
</jdiameterd-network-element-total-routes>

<jdiameterd-network-element-invalid-routes>*jdiameterd-network-element-invalid-routes*
</jdiameterd-network-element-invalid-routes>

<jdiameterd-network-element-peer-activation-delay>*jdiameterd-network-element-peer-activation-delay*
</jdiameterd-network-element-peer-activation-delay>

<jdiameterd-network-element-first-selection-delay>*jdiameterd-network-element-first-selection-delay*
</jdiameterd-network-element-first-selection-delay>

<jdiameterd-network-element-post-selection-delay>*jdiameterd-network-element-post-selection-delay*
</jdiameterd-network-element-post-selection-delay>
</jdiameterd-network-element-data>
</jdiameterd-network-element-information>

Description Diameter network-elements.

Contents <jdiameterd-network-element-activated-peers>—The number of peers activated by a network-element.

<jdiameterd-network-element-first-selection-delay>—The delay before the first peer selection.

<jdiameterd-network-element-instance-name>—Instance name for a network-element.

<jdiameterd-network-element-invalid-routes>—The number of invalid routes for a network element.

<jdiameterd-network-element-name>—Network-element name.

<jdiameterd-network-element-open-peers>—The number of peers in open state for a network element.

<jdiameterd-network-element-peer-activation-delay>—The delay between peer activations.

<jdiameterd-network-element-post-selection-delay>—The delay after selection while non-selected peers are still activated.

<jdiameterd-network-element-primary-peer>—The name of primary peer for a network-element.

<jdiameterd-network-element-secondary-peer>—The name of secondary peer for a network-element.

<jdiameterd-network-element-state>—State of a network-element.

<jdiameterd-network-element-total-peers>—The total number of peers for a network-element.

<jdiameterd-network-element-total-routes>—The total number of routes for a network element.

<jdiameterd-network-element-information>

Usage

```
<rpc-reply>
  <jdiameterd-network-element-information>
    <jdiameterd-network-element-list>...</jdiameterd-network-element-list>
    <jdiameterd-network-element-brief>...</jdiameterd-network-element-brief>
    <jdiameterd-network-element-data>...</jdiameterd-network-element-data>
    <jdiameterd-network-element-not-found>jdiameterd-network-element-not-found
                </jdiameterd-network-element-not-found>
    <jdiameterd-network-element-error>jdiameterd-network-element-error
                </jdiameterd-network-element-error>
  </jdiameterd-network-element-information>
</rpc-reply>
```

Description Diameter network element informaiton.

Contents <jdiameterd-network-element-brief>—Diameter network-elements.

<jdiameterd-network-element-data>—Diameter network-elements.

<jdiameterd-network-element-error>—No documentation is available yet.

<jdiameterd-network-element-list>—Diameter network-elements.

<jdiameterd-network-element-not-found>—Requested network-element is not found.

<jdiameterd-network-element-list>

Usage

```
<jdiameterd-node-information | jdiameterd-network-element-information>
  <jdiameterd-network-element-list>
    <jdiameterd-network-element-name>jdiameterd-network-element-name
                </jdiameterd-network-element-name>

<jdiameterd-network-element-instance-name>jdiameterd-network-element-instance-nam
e
                </jdiameterd-network-element-instance-name>
    <jdiameterd-network-element-state>jdiameterd-network-element-state
                </jdiameterd-network-element-state>

<jdiameterd-network-element-primary-peer>jdiameterd-network-element-primary-peer
                </jdiameterd-network-element-primary-peer>

<jdiameterd-network-element-secondary-peer>jdiameterd-network-element-secondary-pe
er
                </jdiameterd-network-element-secondary-peer>
  </jdiameterd-network-element-list>
</jdiameterd-node-information | jdiameterd-network-element-information>
```

Description Diameter network-elements.

Contents

<jdiameterd-network-element-instance-name>—Instance name for a network-element.

<jdiameterd-network-element-name>—Network-element name.

<jdiameterd-network-element-primary-peer>—The name of primary peer for a network-element.

<jdiameterd-network-element-secondary-peer>—The name of secondary peer for a network-element.

<jdiameterd-network-element-state>—State of a network-element.

<jdiameterd-network-element-map-data>

Usage

```
<jdiameterd-network-element-map-information>
  <jdiameterd-network-element-map-data>
    <jdiameterd-network-element-name>jdiameterd-network-element-name
                </jdiameterd-network-element-name>

<jdiameterd-network-element-instance-name>jdiameterd-network-element-instance-nam
e
                </jdiameterd-network-element-instance-name>
    <jdiameterd-network-element-peer-name>jdiameterd-network-element-peer-name
                </jdiameterd-network-element-peer-name>
    <jdiameterd-network-element-peer-priority>jdiameterd-network-element-peer-priority
                </jdiameterd-network-element-peer-priority>
    <jdiameterd-network-element-peer-usage>jdiameterd-network-element-peer-usage
                </jdiameterd-network-element-peer-usage>
  </jdiameterd-network-element-map-data>
</jdiameterd-network-element-map-information>
```

Description Diameter peers used by network-elements.

Contents

<jdiameterd-network-element-instance-name>—Instance name for a network-element.

<jdiameterd-network-element-name>—Network-element name.

<jdiameterd-network-element-peer-name>—Name of a peer assigned to a network-element.

<jdiameterd-network-element-peer-priority>—Priority of a peer assigned to a network-element.

<jdiameterd-network-element-peer-usage>—Peer usage by a network-element.

<jdiameterd-network-element-map-information>

Usage

```
<rpc-reply>
  <jdiameterd-network-element-map-information>
    <jdiameterd-network-element-map-list>...</jdiameterd-network-element-map-list>

<jdiameterd-network-element-map-data>...</jdiameterd-network-element-map-data>

<jdiameterd-network-element-map-not-found>jdiameterd-network-element-map-not-found
                </jdiameterd-network-element-map-not-found>
    <jdiameterd-network-element-map-error>jdiameterd-network-element-map-error
                </jdiameterd-network-element-map-error>
  </jdiameterd-network-element-map-information>
</rpc-reply>
```

Description Diameter network element map informaiton.

Contents <jdiameterd-network-element-map-data>—Diameter peers used by network-elements.

<jdiameterd-network-element-map-error>—No documentation is available yet.

<jdiameterd-network-element-map-list>—Diameter peers used by network-elements.

<jdiameterd-network-element-map-not-found>—Requested network-element is not found.

<jdiameterd-network-element-map-list>

Usage

```
<jdiameterd-network-element-map-information>
  <jdiameterd-network-element-map-list>
    <jdiameterd-network-element-name>jdiameterd-network-element-name
                </jdiameterd-network-element-name>

<jdiameterd-network-element-instance-name>jdiameterd-network-element-instance-nam
e
                </jdiameterd-network-element-instance-name>
    <jdiameterd-network-element-peer-name>jdiameterd-network-element-peer-name
                </jdiameterd-network-element-peer-name>
    <jdiameterd-network-element-peer-priority>jdiameterd-network-element-peer-priority
                </jdiameterd-network-element-peer-priority>
    <jdiameterd-network-element-peer-usage>jdiameterd-network-element-peer-usage
                </jdiameterd-network-element-peer-usage>
  </jdiameterd-network-element-map-list>
</jdiameterd-network-element-map-information>
```

Description Diameter peers used by network-elements.

Contents

<jdiameterd-network-element-instance-name>—Instance name for a network-element.

<jdiameterd-network-element-name>—Network-element name.

<jdiameterd-network-element-peer-name>—Name of a peer assigned to a network-element.

<jdiameterd-network-element-peer-priority>—Priority of a peer assigned to a network-element.

<jdiameterd-network-element-peer-usage>—Peer usage by a network-element.

<jdiameterd-node-information>

Usage

```
<rpc-reply>
  <jdiameterd-node-information>
    <jdiameterd-node-summary>...</jdiameterd-node-summary>
    <jdiameterd-function-list>...</jdiameterd-function-list>
    <jdiameterd-instance-list>...</jdiameterd-instance-list>
    <jdiameterd-network-element-list>...</jdiameterd-network-element-list>
    <jdiameterd-peer-list>...</jdiameterd-peer-list>
    <jdiameterd-route-list>...</jdiameterd-route-list>
  </jdiameterd-node-information>
</rpc-reply>
```

Description Diameter information.

Contents <jdiameterd-function-list>—Diameter functions.

<jdiameterd-instance-list>—Diameter instances.

<jdiameterd-network-element-list>—Diameter network-elements.

<jdiameterd-node-summary>—Diameter node information.

<jdiameterd-peer-list>—Diameter peers.

<jdiameterd-route-list>—Diameter routes.

<jdiameterd-node-summary>

Usage

```
<jdiameterd-node-information>
  <jdiameterd-node-summary>
    <jdiameterd-node-pid>jdiameterd-node-pid</jdiameterd-node-pid>
    <jdiameterd-node-total-functions>jdiameterd-node-total-functions
            </jdiameterd-node-total-functions>
    <jdiameterd-node-connected-functions>jdiameterd-node-connected-functions
            </jdiameterd-node-connected-functions>
    <jdiameterd-node-instances>jdiameterd-node-instances
            </jdiameterd-node-instances>
    <jdiameterd-node-total-network-elements>jdiameterd-node-total-network-elements
            </jdiameterd-node-total-network-elements>

<jdiameterd-node-connected-network-elements>jdiameterd-node-connected-network-elements
            </jdiameterd-node-connected-network-elements>
    <jdiameterd-node-total-peers>jdiameterd-node-total-peers
            </jdiameterd-node-total-peers>
    <jdiameterd-node-activated-peers>jdiameterd-node-activated-peers
            </jdiameterd-node-activated-peers>
    <jdiameterd-node-open-peers>jdiameterd-node-open-peers
            </jdiameterd-node-open-peers>
    <jdiameterd-node-total-transports>jdiameterd-node-total-transports
            </jdiameterd-node-total-transports>

<jdiameterd-node-network-transmission-queue-requests>jdiameterd-node-network-transmission-queue-requests
            </jdiameterd-node-network-transmission-queue-requests>

<jdiameterd-node-network-transmission-queue-answers>jdiameterd-node-network-transmission-queue-answers
            </jdiameterd-node-network-transmission-queue-answers>

<jdiameterd-node-expected-answers-from-network>jdiameterd-node-expected-answers-from-network
            </jdiameterd-node-expected-answers-from-network>

<jdiameterd-node-function-transmission-queue-requests>jdiameterd-node-function-transmission-queue-requests
            </jdiameterd-node-function-transmission-queue-requests>

<jdiameterd-node-function-transmission-queue-answers>jdiameterd-node-function-transmission-queue-answers
            </jdiameterd-node-function-transmission-queue-answers>

<jdiameterd-node-expected-answers-from-function>jdiameterd-node-expected-answers-from-function
            </jdiameterd-node-expected-answers-from-function>

<jdiameterd-node-network-transmission-queue-memory>jdiameterd-node-network-transmission-queue-memory
            </jdiameterd-node-network-transmission-queue-memory>
```

<jdiameterd-node-function-transmission-queue-memory>*jdiameterd-node-function-transmission-queue-memory*
</jdiameterd-node-function-transmission-queue-memory>
</jdiameterd-node-summary>
</jdiameterd-node-information>

Description Diameter node information.

Contents <jdiameterd-node-activated-peers>—The number of peers activated by at least one network-element.

<jdiameterd-node-connected-functions>—The functions currently connected to the diameter node.

<jdiameterd-node-connected-network-elements>—The number of network elements in connected states.

<jdiameterd-node-expected-answers-from-function>—The total number of answers expected from functions.

<jdiameterd-node-expected-answers-from-network>—The total number of answers expected from the network (excluding link maintenance).

<jdiameterd-node-function-transmission-queue-answers>—The total number of answers queued for transmission to functions.

<jdiameterd-node-function-transmission-queue-memory>—The total memory used by messages queued for transmission to functions.

<jdiameterd-node-function-transmission-queue-requests>—The total number of requests queued for transmission to functions.

<jdiameterd-node-instances>—The number of diameter instances.

<jdiameterd-node-network-transmission-queue-answers>—The total number of answers queued for network transmission (excluding link maintenance).

<jdiameterd-node-network-transmission-queue-memory>—The total memory used by messages queued for network transmission (excluding link maintenance).

<jdiameterd-node-network-transmission-queue-requests>—The total number of requests queued for network transmission (excluding link maintenance).

<jdiameterd-node-open-peers>—The number of peers in open state.

<jdiameterd-node-pid>—Diameter process Id.

<jdiameterd-node-total-functions>—The number of the functions supported by a node.

<jdiameterd-node-total-network-elements>—The total number of network elements.

<jdiameterd-node-total-peers>—The total number of peers.

<jdiameterd-node-total-transports>—The total number of transports.

<jdiameterd-peer-brief>

Usage

```
<jdiameterd-peer-information>
  <jdiameterd-peer-brief>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>

<jdiameterd-instance-name>jdiameterd-instance-name</jdiameterd-instance-name>
    <jdiameterd-peer-state>jdiameterd-peer-state</jdiameterd-peer-state>
    <jdiameterd-peer-network-element-count>jdiameterd-peer-network-element-count
                </jdiameterd-peer-network-element-count>
    <jdiameterd-peer-activated-count>jdiameterd-peer-activated-count
                </jdiameterd-peer-activated-count>
    <jdiameterd-peer-primary-count>jdiameterd-peer-primary-count
                </jdiameterd-peer-primary-count>
    <jdiameterd-peer-secondary-count>jdiameterd-peer-secondary-count
                </jdiameterd-peer-secondary-count>
    <jdiameterd-peer-vrf>jdiameterd-peer-vrf</jdiameterd-peer-vrf>
    <jdiameterd-peer-remote-address>jdiameterd-peer-remote-address
                </jdiameterd-peer-remote-address>
    <jdiameterd-peer-remote-port>jdiameterd-peer-remote-port
                </jdiameterd-peer-remote-port>
    <jdiameterd-peer-remote-realm>jdiameterd-peer-remote-realm
                </jdiameterd-peer-remote-realm>
    <jdiameterd-peer-remote-host>jdiameterd-peer-remote-host
                </jdiameterd-peer-remote-host>
  </jdiameterd-peer-brief>
</jdiameterd-peer-information>
```

Description Peer brief.

Contents

<jdiameterd-instance-name>—Instance name.

<jdiameterd-peer-activated-count>—The number network elements that activated a peer.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-network-element-count>—The number network elements using a peer.

<jdiameterd-peer-primary-count>—The number network elements that selected a peer as a primary.

<jdiameterd-peer-remote-address>—Remote network address of a peer.

<jdiameterd-peer-remote-host>—Remote end origin host for a peer.

<jdiameterd-peer-remote-port>—Remote port of a peer.

<jdiameterd-peer-remote-realm>—Remote end origin realm for a peer.

<jdiameterd-peer-secondary-count>—The number network elements that selected a peer as a secondary.

<jdiameterd-peer-state>—State of a peer.

<jdiameterd-peer-vrf>—VRF of a peer.

<jdiameterd-peer-data>

Usage

```
<jdiameterd-peer-information>
  <jdiameterd-peer-data>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>

<jdiameterd-instance-name>jdiameterd-instance-name</jdiameterd-instance-name>
    <jdiameterd-peer-state>jdiameterd-peer-state</jdiameterd-peer-state>
    <jdiameterd-peer-network-element-count>jdiameterd-peer-network-element-count
            </jdiameterd-peer-network-element-count>
    <jdiameterd-peer-activated-count>jdiameterd-peer-activated-count
            </jdiameterd-peer-activated-count>
    <jdiameterd-peer-primary-count>jdiameterd-peer-primary-count
            </jdiameterd-peer-primary-count>
    <jdiameterd-peer-secondary-count>jdiameterd-peer-secondary-count
            </jdiameterd-peer-secondary-count>
    <jdiameterd-peer-vrf>jdiameterd-peer-vrf</jdiameterd-peer-vrf>
    <jdiameterd-peer-remote-address>jdiameterd-peer-remote-address
            </jdiameterd-peer-remote-address>
    <jdiameterd-peer-remote-port>jdiameterd-peer-remote-port
            </jdiameterd-peer-remote-port>
    <jdiameterd-peer-remote-realm>jdiameterd-peer-remote-realm
            </jdiameterd-peer-remote-realm>
    <jdiameterd-peer-remote-host>jdiameterd-peer-remote-host
            </jdiameterd-peer-remote-host>
    <jdiameterd-peer-local-address>jdiameterd-peer-local-address
            </jdiameterd-peer-local-address>
    <jdiameterd-peer-local-port>jdiameterd-peer-local-port
            </jdiameterd-peer-local-port>
    <jdiameterd-peer-local-transport>jdiameterd-peer-local-transport
            </jdiameterd-peer-local-transport>
    <jdiameterd-peer-post-enable-time>jdiameterd-peer-post-enable-time
            </jdiameterd-peer-post-enable-time>
    <jdiameterd-peer-in-state-time>jdiameterd-peer-in-state-time
            </jdiameterd-peer-in-state-time>
    <jdiameterd-peer-in-state-remain-time>jdiameterd-peer-in-state-remain-time
            </jdiameterd-peer-in-state-remain-time>
    <jdiameterd-peer-missed-watch-dogs>jdiameterd-peer-missed-watch-dogs
            </jdiameterd-peer-missed-watch-dogs>

<jdiameterd-peer-transmission-queue-length>jdiameterd-peer-transmission-queue-length
            </jdiameterd-peer-transmission-queue-length>
    <jdiameterd-peer-answer-count>jdiameterd-peer-answer-count
            </jdiameterd-peer-answer-count>
    <jdiameterd-peer-post-rx-time>jdiameterd-peer-post-rx-time
            </jdiameterd-peer-post-rx-time>
    <jdiameterd-peer-post-rx-remain>jdiameterd-peer-post-rx-remain
            </jdiameterd-peer-post-rx-remain>
    <jdiameterd-peer-op-timeout>jdiameterd-peer-op-timeout
            </jdiameterd-peer-op-timeout>
    <jdiameterd-peer-suspended-timeout>jdiameterd-peer-suspended-timeout
            </jdiameterd-peer-suspended-timeout>
    <jdiameterd-peer-closed-timeout>jdiameterd-peer-closed-timeout
            </jdiameterd-peer-closed-timeout>
```

```
        <jdiameterd-peer-connect-timeout>jdiameterd-peer-connect-timeout
                        </jdiameterd-peer-connect-timeout>
      </jdiameterd-peer-data>
</jdiameterd-peer-information>
```

Description Peer information.

Contents <jdiameterd-instance-name>—Instance name.

<jdiameterd-peer-activated-count>—The number network elements that activated a peer.

<jdiameterd-peer-answer-count>—The number of answers being awaited for a peer (excluding link maintenace messages).

<jdiameterd-peer-closed-timeout>—Timeout in closed state for a peer (milliseconds).

<jdiameterd-peer-connect-timeout>—Connection establishing timeout for a peer (milliseconds).

<jdiameterd-peer-in-state-remain-time>—Time until the next timeout.

<jdiameterd-peer-in-state-time>—Time since the transition to the current state.

<jdiameterd-peer-local-address>—Local network address of a peer.

<jdiameterd-peer-local-port>—Local port of a peer.

<jdiameterd-peer-local-transport>—Transport configured for a peer.

<jdiameterd-peer-missed-watch-dogs>—Number of missing DWAs.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-network-element-count>—The number network elements using a peer.

<jdiameterd-peer-op-timeout>—Operational timeout for a peer (milliseconds).

<jdiameterd-peer-post-enable-time>—Time since the last enable.

<jdiameterd-peer-post-rx-remain>—Time until inactivity timeout (milliseconds).

<jdiameterd-peer-post-rx-time>—Time since last rx (milliseconds).

<jdiameterd-peer-primary-count>—The number network elements that selected a peer as a primary.

<jdiameterd-peer-remote-address>—Remote network address of a peer.

<jdiameterd-peer-remote-host>—Remote end origin host for a peer.

<jdiameterd-peer-remote-port>—Remote port of a peer.

<jdiameterd-peer-remote-realm>—Remote end origin realm for a peer.

<jdiameterd-peer-secondary-count>—The number network elements that selected a peer as a secondary.

<jdiameterd-peer-state>—State of a peer.

<jdiameterd-peer-suspended-timeout>—Base timeout for suspended state for a peer (milliseconds).

<jdiameterd-peer-transmission-queue-length>—The lengh of the tx-queue for a peer (excluding link maintenance mesages).

<jdiameterd-peer-vrf>—VRF of a peer.

<jdiameterd-peer-information>

Usage

```
<rpc-reply>
  <jdiameterd-peer-information>
    <jdiameterd-peer-list>...</jdiameterd-peer-list>
    <jdiameterd-peer-brief>...</jdiameterd-peer-brief>
    <jdiameterd-peer-data>...</jdiameterd-peer-data>
    <jdiameterd-peer-not-found>jdiameterd-peer-not-found
                </jdiameterd-peer-not-found>
    <jdiameterd-peer-error>jdiameterd-peer-error</jdiameterd-peer-error>
  </jdiameterd-peer-information>
</rpc-reply>
```

Description Diameter peer informaiton.

Contents <jdiameterd-peer-brief>—Peer brief.

<jdiameterd-peer-data>—Peer information.

<jdiameterd-peer-error>—No documentation is available yet.

<jdiameterd-peer-list>—Diameter peers.

<jdiameterd-peer-not-found>—Requested peer is not found.

<jdiameterd-peer-list>

Usage

```
<jdiameterd-node-information | jdiameterd-peer-information>
  <jdiameterd-peer-list>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>
    <jdiameterd-peer-instance-name>jdiameterd-peer-instance-name
            </jdiameterd-peer-instance-name>
    <jdiameterd-peer-state>jdiameterd-peer-state</jdiameterd-peer-state>
    <jdiameterd-peer-network-element-count>jdiameterd-peer-network-element-count
            </jdiameterd-peer-network-element-count>
    <jdiameterd-peer-activated-count>jdiameterd-peer-activated-count
            </jdiameterd-peer-activated-count>
    <jdiameterd-peer-primary-count>jdiameterd-peer-primary-count
            </jdiameterd-peer-primary-count>
    <jdiameterd-peer-secondary-count>jdiameterd-peer-secondary-count
            </jdiameterd-peer-secondary-count>
  </jdiameterd-peer-list>
</jdiameterd-node-information | jdiameterd-peer-information>
```

Description Diameter peers.

Contents

<jdiameterd-peer-activated-count>—The number network elements that activated a peer.

<jdiameterd-peer-instance-name>—Instance name for a peer.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-network-element-count>—The number network elements using a peer.

<jdiameterd-peer-primary-count>—The number network elements that selected a peer as a primary.

<jdiameterd-peer-secondary-count>—The number network elements that selected a peer as a secondary.

<jdiameterd-peer-state>—State of a peer.

<jdiameterd-peer-map-data>

Usage

```
<jdiameterd-peer-map-information>
  <jdiameterd-peer-map-data>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>
    <jdiameterd-peer-instance-name>jdiameterd-peer-instance-name
            </jdiameterd-peer-instance-name>
    <jdiameterd-peer-network-element-name>jdiameterd-peer-network-element-name
            </jdiameterd-peer-network-element-name>
    <jdiameterd-peer-network-element-priority>jdiameterd-peer-network-element-priority
            </jdiameterd-peer-network-element-priority>
    <jdiameterd-peer-network-element-usage>jdiameterd-peer-network-element-usage
            </jdiameterd-peer-network-element-usage>
  </jdiameterd-peer-map-data>
</jdiameterd-peer-map-information>
```

Description Diameter peers used by network-elements.

Contents <jdiameterd-peer-instance-name>—Instance name for a peer.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-network-element-name>—Name of a network-element a peer is assigned to.

<jdiameterd-peer-network-element-priority>—Priority of a peer assigned to a network-element.

<jdiameterd-peer-network-element-usage>—Peer usage by a network-element.

<jdiameterd-peer-map-information>

Usage

```
<rpc-reply>
  <jdiameterd-peer-map-information>
    <jdiameterd-peer-map-list>...</jdiameterd-peer-map-list>
    <jdiameterd-peer-map-data>...</jdiameterd-peer-map-data>
    <jdiameterd-peer-map-not-found>jdiameterd-peer-map-not-found
            </jdiameterd-peer-map-not-found>
    <jdiameterd-peer-map-error>jdiameterd-peer-map-error
            </jdiameterd-peer-map-error>
  </jdiameterd-peer-map-information>
</rpc-reply>
```

Description Diameter peer map informaiton.

Contents <jdiameterd-peer-map-data>—Diameter peers used by network-elements.

<jdiameterd-peer-map-error>—No documentation is available yet.

<jdiameterd-peer-map-list>—Diameter peers used by network-elements.

<jdiameterd-peer-map-not-found>—Requested peer is not found.

<jdiameterd-peer-map-list>

Usage

```
<jdiameterd-peer-map-information>
  <jdiameterd-peer-map-list>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>
    <jdiameterd-peer-instance-name>jdiameterd-peer-instance-name
            </jdiameterd-peer-instance-name>
    <jdiameterd-peer-network-element-name>jdiameterd-peer-network-element-name
            </jdiameterd-peer-network-element-name>
    <jdiameterd-peer-network-element-priority>jdiameterd-peer-network-element-priority
            </jdiameterd-peer-network-element-priority>
    <jdiameterd-peer-network-element-usage>jdiameterd-peer-network-element-usage
            </jdiameterd-peer-network-element-usage>
  </jdiameterd-peer-map-list>
</jdiameterd-peer-map-information>
```

Description Diameter peers used by network-elements.

Contents <jdiameterd-peer-instance-name>—Instance name for a peer.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-network-element-name>—Name of a network-element a peer is assigned to.

<jdiameterd-peer-network-element-priority>—Priority of a peer assigned to a network-element.

<jdiameterd-peer-network-element-usage>—Peer usage by a network-element.

<jdiameterd-peer-statistics-brief>

Usage

```
<jdiameterd-peer-statistics-information>
  <jdiameterd-peer-statistics-brief>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>
    <jdiameterd-peer-instance-name>jdiameterd-peer-instance-name
            </jdiameterd-peer-instance-name>
    <jdiameterd-peer-receive-errors>jdiameterd-peer-receive-errors
            </jdiameterd-peer-receive-errors>
    <jdiameterd-peer-receive-successes>jdiameterd-peer-receive-successes
            </jdiameterd-peer-receive-successes>

<jdiameterd-peer-receive-messages-handled-by-peer>jdiameterd-peer-receive-messages-
handled-by-peer
            </jdiameterd-peer-receive-messages-handled-by-peer>

<jdiameterd-peer-receive-messages-dropped>jdiameterd-peer-receive-messages-droppe
d
            </jdiameterd-peer-receive-messages-dropped>

<jdiameterd-peer-receive-answers-dropped>jdiameterd-peer-receive-answers-dropped
            </jdiameterd-peer-receive-answers-dropped>
    <jdiameterd-peer-received-answers>jdiameterd-peer-received-answers
            </jdiameterd-peer-received-answers>
    <jdiameterd-peer-received-requests>jdiameterd-peer-received-requests
            </jdiameterd-peer-received-requests>

<jdiameterd-peer-receive-messages-delivered-to-node>jdiameterd-peer-receive-message
s-delivered-to-node
            </jdiameterd-peer-receive-messages-delivered-to-node>
    <jdiameterd-peer-receive-errors-total>jdiameterd-peer-receive-errors-total
            </jdiameterd-peer-receive-errors-total>
    <jdiameterd-peer-receive-successes-total>jdiameterd-peer-receive-successes-total
            </jdiameterd-peer-receive-successes-total>

<jdiameterd-peer-receive-messages-handled-by-peer-total>jdiameterd-peer-receive-mess
ages-handled-by-peer-total
            </jdiameterd-peer-receive-messages-handled-by-peer-total>

<jdiameterd-peer-receive-messages-dropped-total>jdiameterd-peer-receive-messages-dr
opped-total
            </jdiameterd-peer-receive-messages-dropped-total>

<jdiameterd-peer-receive-answers-dropped-total>jdiameterd-peer-receive-answers-dropp
ed-total
            </jdiameterd-peer-receive-answers-dropped-total>
    <jdiameterd-peer-received-answers-total>jdiameterd-peer-received-answers-total
            </jdiameterd-peer-received-answers-total>
    <jdiameterd-peer-received-requests-total>jdiameterd-peer-received-requests-total
            </jdiameterd-peer-received-requests-total>

<jdiameterd-peer-receive-messages-delivered-to-node-total>jdiameterd-peer-receive-mes
sages-delivered-to-node-total
            </jdiameterd-peer-receive-messages-delivered-to-node-total>
```

<jdiameterd-peer-messages-forwarded-to-peer-connection>*jdiameterd-peer-messages-forwarded-to-peer-connection*
</jdiameterd-peer-messages-forwarded-to-peer-connection>

<jdiameterd-peer-messages-forwarded-to-peer>*jdiameterd-peer-messages-forwarded-to-peer*
</jdiameterd-peer-messages-forwarded-to-peer>

<jdiameterd-peer-messages-forwarded-to-routed-destination>*jdiameterd-peer-messages-forwarded-to-routed-destination*
</jdiameterd-peer-messages-forwarded-to-routed-destination>
<jdiameterd-peer-forwarded-messages>*jdiameterd-peer-forwarded-messages*
</jdiameterd-peer-forwarded-messages>
<jdiameterd-peer-forwarding-failures>*jdiameterd-peer-forwarding-failures*
</jdiameterd-peer-forwarding-failures>
<jdiameterd-peer-forwarding-successes>*jdiameterd-peer-forwarding-successes*
</jdiameterd-peer-forwarding-successes>

<jdiameterd-peer-forwarding-moved-in-messages>*jdiameterd-peer-forwarding-moved-in-messages*
</jdiameterd-peer-forwarding-moved-in-messages>

<jdiameterd-peer-forwarding-moved-out-messages>*jdiameterd-peer-forwarding-moved-out-messages*
</jdiameterd-peer-forwarding-moved-out-messages>

<jdiameterd-peer-forwarding-rerouted-messages>*jdiameterd-peer-forwarding-rerouted-messages*
</jdiameterd-peer-forwarding-rerouted-messages>

<jdiameterd-peer-forwarding-dropped-messages>*jdiameterd-peer-forwarding-dropped-messages*
</jdiameterd-peer-forwarding-dropped-messages>

<jdiameterd-peer-messages-transmitted-by-self>*jdiameterd-peer-messages-transmitted-by-self*
</jdiameterd-peer-messages-transmitted-by-self>
<jdiameterd-peer-transmit-errors>*jdiameterd-peer-transmit-errors*
</jdiameterd-peer-transmit-errors>
<jdiameterd-peer-transmit-successes>*jdiameterd-peer-transmit-successes*
</jdiameterd-peer-transmit-successes>

<jdiameterd-peer-messages-forwarded-to-peer-connection-total>*jdiameterd-peer-messages-forwarded-to-peer-connection-total*
</jdiameterd-peer-messages-forwarded-to-peer-connection-total>

<jdiameterd-peer-messages-forwarded-to-peer-total>*jdiameterd-peer-messages-forwarded-to-peer-total*
</jdiameterd-peer-messages-forwarded-to-peer-total>

<jdiameterd-peer-messages-forwarded-to-routed-destination-total>*jdiameterd-peer-messages-forwarded-to-routed-destination-total*
</jdiameterd-peer-messages-forwarded-to-routed-destination-total>

<jdiameterd-peer-forwarded-messages-total>*jdiameterd-peer-forwarded-messages-total*
</jdiameterd-peer-forwarded-messages-total>
<jdiameterd-peer-forwarding-failures-total>*jdiameterd-peer-forwarding-failures-total*
</jdiameterd-peer-forwarding-failures-total>

<jdiameterd-peer-forwarding-successes-total>*jdiameterd-peer-forwarding-successes-total*
</jdiameterd-peer-forwarding-successes-total>

<jdiameterd-peer-forwarding-moved-in-messages-total>*jdiameterd-peer-forwarding-moved-in-messages-total*
</jdiameterd-peer-forwarding-moved-in-messages-total>

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Description Peer statiscs.

Contents <jdiameterd-peer-active-connection-terminations>—Number of gracefull connection terminations initiated by our size.

<jdiameterd-peer-active-connection-terminations-total>—Number of gracefull connection terminations initiated by our size since last enable.

<jdiameterd-peer-active-disconnects>—Number of ungracefull connection terminations initiated by our size.

<jdiameterd-peer-active-disconnects-total>—Number of ungracefull connection terminations initiated by our size since last enable.

<jdiameterd-peer-connection-attempts>—Number of connetion attempts.

<jdiameterd-peer-connection-attempts-total>—Number of connetion attempts since last enable.

<jdiameterd-peer-connection-failures>—Number of failed connetion attempts.

<jdiameterd-peer-connection-failures-total>—Number of failed connetion attempts since last enable.

<jdiameterd-peer-connection-successes>—Number of connetions established.

<jdiameterd-peer-connection-successes-total>—Number of connetions established since last enable.

<jdiameterd-peer-forwarded-messages>—Number of messages forwarded to all target types combined.

<jdiameterd-peer-forwarded-messages-total>—Number of messages forwarded to all target types combined, since last enable.

<jdiameterd-peer-forwarding-dropped-messages>—Number of forwarded messages dropped due to state changes.

<jdiameterd-peer-forwarding-dropped-messages-total>—Number of forwarded messages dropped due to state changes, since last enable.

<jdiameterd-peer-forwarding-failures>—Number of failed forward operations.

<jdiameterd-peer-forwarding-failures-total>—Number of failed forward operations, since last enable.

<jdiameterd-peer-forwarding-moved-in-messages>—Number of forwarded messages moved in from other peers when state changed.

<jdiameterd-peer-forwarding-moved-in-messages-total>—Number of forwarded messages moved in from other peers when state changed, since last enable.

<jdiameterd-peer-forwarding-moved-out-messages>—Number of forwarded messaged moved out to other peers when state is changed.

<jdiameterd-peer-forwarding-moved-out-messages-total>—Number of forwarded messaged moved out to other peers when state is changed, since last enable.

<jdiameterd-peer-forwarding-rerouted-messages>—Number of rerouted messaged.

<jdiameterd-peer-forwarding-rerouted-messages-total>—Number of rerouted messaged, since last enable.

<jdiameterd-peer-forwarding-successes>—Number of successfull forward operations.

<jdiameterd-peer-forwarding-successes-total>—Number of successfull forward operations, since last enable.

<jdiameterd-peer-instance-name>—Instance name for a peer.

<jdiameterd-peer-messages-forwarded-to-peer>—Number of messages forwarded to peer, to peer with network-element backup and to network-element.

<jdiameterd-peer-messages-forwarded-to-peer-connection>—Number of messages

forwarded to peer-connection.

<jdiameterd-peer-messages-forwarded-to-peer-connection-total>—Number of messages forwarded to peer-connection since last enable.

<jdiameterd-peer-messages-forwarded-to-peer-total>—Number of messages forwarded to peer, to peer with network-element backup and to network-element, since last endable.

<jdiameterd-peer-messages-forwarded-to-routed-destination>—Number of messages forwarded to routed destinations.

<jdiameterd-peer-messages-forwarded-to-routed-destination-total>—Number of messages forwarded to routed destinations, since last enable.

<jdiameterd-peer-messages-transmitted-by-self>—Number of messages submitted for transition by the peer itself.

<jdiameterd-peer-messages-transmitted-by-self-total>—Number of messages submitted for transition by the peer itself, since last enable.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-passive-connection-terminations>—Number of gracefull connection terminations initiated by other size.

<jdiameterd-peer-passive-connection-terminations-total>—Number of gracefull connection terminations initiated by other size since last enable.

<jdiameterd-peer-passive-disconnects>—Number of ungracefull connection terminations initiated by other size.

<jdiameterd-peer-passive-disconnects-total>—Number of ungracefull connection terminations initiated by other size since last enable.

<jdiameterd-peer-receive-answers-dropped>—Number of responses dropped due to no matching entry in asnwer database.

<jdiameterd-peer-receive-answers-dropped-total>—Number of responses dropped due to no matching entry in asnwer database since last enable.

<jdiameterd-peer-receive-blocking-requests>—Number of rx block requests.

<jdiameterd-peer-receive-blocking-requests-total>—Number of rx block requests since last enable.

<jdiameterd-peer-receive-blocking-timeouts>—Number of rx block timeoutss.

<jdiameterd-peer-receive-blocking-timeouts-total>—Number of rx block timeoutss since last enable.

<jdiameterd-peer-receive-errors>—Number of messages received with errors (most probably due to disconnect).

<jdiameterd-peer-receive-errors-total>—Number of messages received with errors

(most probably due to disconnect) since last enable.

<jdiameterd-peer-receive-messages-delivered-to-node>—Number of messages delivered to upper layer.

<jdiameterd-peer-receive-messages-delivered-to-node-total>—Number of messages delivered to upper layer since last enable.

<jdiameterd-peer-receive-messages-dropped>—Number of messaged dropped due to peer status.

<jdiameterd-peer-receive-messages-dropped-total>—Number of messaged dropped due to peer status since last enable.

<jdiameterd-peer-receive-messages-handled-by-peer>—Number of messaged handled by the peer itself.

<jdiameterd-peer-receive-messages-handled-by-peer-total>—Number of messaged handled by the peer itself since last enable.

<jdiameterd-peer-receive-successes>—Number of successfully received messages.

<jdiameterd-peer-receive-successes-total>—Number of successfully received messages since last enable.

<jdiameterd-peer-received-answers>—Number of responses delivered to upper layer.

<jdiameterd-peer-received-answers-total>—Number of responses delivered to upper layer since last enable.

<jdiameterd-peer-received-requests>—Number of requests delivered to upper layer.

<jdiameterd-peer-received-requests-total>—Number of requests delivered to upper layer since last enable.

<jdiameterd-peer-transmit-errors>—Number of messaged with unrecoverable transmission error.

<jdiameterd-peer-transmit-errors-total>—Number of messaged with unrecoverable transmission error, since last enable.

<jdiameterd-peer-transmit-successes>—Number of successfully transmitted messages.

<jdiameterd-peer-transmit-successes-total>—Number of successfully transmitted messages, since last enable.

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Usage

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Description Peer statiscs.

Contents <jdiameterd-peer-active-connection-terminations>—Number of gracefull connection terminations initiated by our size.

<jdiameterd-peer-active-connection-terminations-total>—Number of gracefull connection terminations initiated by our size since last enable.

<jdiameterd-peer-active-disconnects>—Number of ungracefull connection terminations initiated by our size.

<jdiameterd-peer-active-disconnects-total>—Number of ungracefull connection terminations initiated by our size since last enable.

<jdiameterd-peer-cea-received>—Number of CEAs received.

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<jdiameterd-peer-cea-transmitted-total>—Number of CEAs sent since last enable.

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<jdiameterd-peer-connection-attempts-total>—Number of connetion attempts since last enable.

<jdiameterd-peer-connection-failures>—Number of failed connetion attempts.

<jdiameterd-peer-connection-failures-total>—Number of failed connetion attempts since last enable.

<jdiameterd-peer-connection-successes>—Number of connetions established.

<jdiameterd-peer-connection-successes-total>—Number of connetions established since last enable.

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<jdiameterd-peer-dpa-received-total>—Number of DPAs received since last enable.

<jdiameterd-peer-dpa-transmitted>—Number of DPAs sent.

<jdiameterd-peer-dpa-transmitted-total>—Number of DPAs sent since last enable.

<jdiameterd-peer-dpr-received>—Number of DPRs received.

<jdiameterd-peer-dpr-received-total>—Number of DPRs received since last enable.

<jdiameterd-peer-dpr-transmitted>—Number of DPRs sent.

<jdiameterd-peer-dpr-transmitted-total>—Number of DPRs sent since last enable.

<jdiameterd-peer-dwa-received>—Number of DWAs received.

<jdiameterd-peer-dwa-received-total>—Number of DWAs received since last enable.

<jdiameterd-peer-dwa-transmitted>—Number of DWAs sent.

<jdiameterd-peer-dwa-transmitted-total>—Number of DWAs sent since last enable.

<jdiameterd-peer-dwr-received>—Number of DWRs received.

<jdiameterd-peer-dwr-received-total>—Number of DWRs received since last enable.

<jdiameterd-peer-dwr-transmitted>—Number of DWRs sent.

<jdiameterd-peer-dwr-transmitted-total>—Number of DWRs sent since last enable.

<jdiameterd-peer-forwarded-messages>—Number of messages forwarded to all target types combined.

<jdiameterd-peer-forwarded-messages-total>—Number of messages forwarded to all target types combined, since last enable.

<jdiameterd-peer-forwarding-dropped-messages>—Number of forwarded messages

dropped due to state changes.

<jdiameterd-peer-forwarding-dropped-messages-total>—Number of forwarded messages dropped due to state changes, since last enable.

<jdiameterd-peer-forwarding-failures>—Number of failed forward operations.

<jdiameterd-peer-forwarding-failures-total>—Number of failed forward operations, since last enable.

<jdiameterd-peer-forwarding-moved-in-messages>—Number of forwarded messages moved in from other peers when state changed.

<jdiameterd-peer-forwarding-moved-in-messages-total>—Number of forwarded messages moved in from other peers when state changed, since last enable.

<jdiameterd-peer-forwarding-moved-out-messages>—Number of forwarded messaged moved out to other peers when state is changed.

<jdiameterd-peer-forwarding-moved-out-messages-total>—Number of forwarded messaged moved out to other peers when state is changed, since last enable.

<jdiameterd-peer-forwarding-rerouted-messages>—Number of rerouted messaged.

<jdiameterd-peer-forwarding-rerouted-messages-total>—Number of rerouted messaged, since last enable.

<jdiameterd-peer-forwarding-successes>—Number of successfull forward operations.

<jdiameterd-peer-forwarding-successes-total>—Number of successfull forward operations, since last enable.

<jdiameterd-peer-messages-forwarded-to-peer>—Number of messages forwarded to peer, to peer with network-element backup and to network-element.

<jdiameterd-peer-messages-forwarded-to-peer-connection>—Number of messages forwarded to peer-connection.

<jdiameterd-peer-messages-forwarded-to-peer-connection-total>—Number of messages forwarded to peer-connection since last enable.

<jdiameterd-peer-messages-forwarded-to-peer-total>—Number of messages forwarded to peer, to peer with network-element backup and to network-element, since last endable.

<jdiameterd-peer-messages-forwarded-to-routed-destination>—Number of messages forwarded to routed destinations.

<jdiameterd-peer-messages-forwarded-to-routed-destination-total>—Number of messages forwarded to routed destinations, since last enable.

<jdiameterd-peer-messages-transmitted-by-self>—Number of messages submitted for transition by the peer itself.

<jdiameterd-peer-messages-transmitted-by-self-total>—Number of messages

submitted for transition by the peer itself, since last enable.

<jdiameterd-peer-passive-connection-terminations>—Number of gracefull connection terminations initiated by other size.

<jdiameterd-peer-passive-connection-terminations-total>—Number of gracefull connection terminations initiated by other size since last enable.

<jdiameterd-peer-passive-disconnects>—Number of ungracefull connection terminations initiated by other size.

<jdiameterd-peer-passive-disconnects-total>—Number of ungracefull connection terminations initiated by other size since last enable.

<jdiameterd-peer-receive-answers-dropped>—Number of responses dropped due to no matching entry in asnwer database.

<jdiameterd-peer-receive-answers-dropped-total>—Number of responses dropped due to no matching entry in asnwer database since last enable.

<jdiameterd-peer-receive-blocking-requests>—Number of rx block requests.

<jdiameterd-peer-receive-blocking-requests-total>—Number of rx block requests since last enable.

<jdiameterd-peer-receive-blocking-timeouts>—Number of rx block timeoutss.

<jdiameterd-peer-receive-blocking-timeouts-total>—Number of rx block timeoutss since last enable.

<jdiameterd-peer-receive-errors>—Number of messages received with errors (most probably due to disconnect).

<jdiameterd-peer-receive-errors-total>—Number of messages received with errors (most probably due to disconnect) since last enable.

<jdiameterd-peer-receive-messages-delivered-to-node>—Number of messages delivered to upper layer.

<jdiameterd-peer-receive-messages-delivered-to-node-total>—Number of messages delivered to upper layer since last enable.

<jdiameterd-peer-receive-messages-dropped>—Number of messaged dropped due to peer status.

<jdiameterd-peer-receive-messages-dropped-total>—Number of messaged dropped due to peer status since last enable.

<jdiameterd-peer-receive-messages-handled-by-peer>—Number of messaged handled by the peer itself.

<jdiameterd-peer-receive-messages-handled-by-peer-total>—Number of messaged handled by the peer itself since last enable.

<jdiameterd-peer-receive-successes>—Number of successfully received messages.

<jdiameterd-peer-receive-successes-total>—Number of successfully received messages since last enable.

<jdiameterd-peer-received-answers>—Number of responses delivered to upper layer.

<jdiameterd-peer-received-answers-total>—Number of responses delivered to upper layer since last enable.

<jdiameterd-peer-received-requests>—Number of requests delivered to upper layer.

<jdiameterd-peer-received-requests-total>—Number of requests delivered to upper layer since last enable.

<jdiameterd-peer-transmit-errors>—Number of messaged with unrecoverable transmission error.

<jdiameterd-peer-transmit-errors-total>—Number of messaged with unrecoverable transmission error, since last enable.

<jdiameterd-peer-transmit-successes>—Number of successfully transmitted messages.

<jdiameterd-peer-transmit-successes-total>—Number of successfully transmitted messages, since last enable.

<jdiameterd-peer-statistics-information>

Usage

```
<rpc-reply>
  <jdiameterd-peer-statistics-information>
    <jdiameterd-peer-statistics-list>...</jdiameterd-peer-statistics-list>
    <jdiameterd-peer-statistics-brief>...</jdiameterd-peer-statistics-brief>
    <jdiameterd-peer-statistics-data>...</jdiameterd-peer-statistics-data>
    <jdiameterd-peer-statistics-not-found>jdiameterd-peer-statistics-not-found
                </jdiameterd-peer-statistics-not-found>
    <jdiameterd-peer-statistics-error>jdiameterd-peer-statistics-error
                </jdiameterd-peer-statistics-error>
  </jdiameterd-peer-statistics-information>
</rpc-reply>
```

Description Diameter peer statistics.

Contents <jdiameterd-peer-statistics-brief>—Peer statiscs.

<jdiameterd-peer-statistics-data>—Peer statiscs.

<jdiameterd-peer-statistics-error>—No documentation is available yet.

<jdiameterd-peer-statistics-list>—Peer statiscs summary.

<jdiameterd-peer-statistics-not-found>—Requested peer is not found.

<jdiameterd-peer-statistics-list>

Usage

```
<jdiameterd-peer-statistics-information>
  <jdiameterd-peer-statistics-list>
    <jdiameterd-peer-name>jdiameterd-peer-name</jdiameterd-peer-name>
    <jdiameterd-peer-instance-name>jdiameterd-peer-instance-name
                </jdiameterd-peer-instance-name>
    <jdiameterd-peer-receive-successes>jdiameterd-peer-receive-successes
                </jdiameterd-peer-receive-successes>

<jdiameterd-peer-receive-messages-handled-by-peer>jdiameterd-peer-receive-messages-
handled-by-peer
                </jdiameterd-peer-receive-messages-handled-by-peer>

<jdiameterd-peer-receive-messages-delivered-to-node>jdiameterd-peer-receive-message
s-delivered-to-node
                </jdiameterd-peer-receive-messages-delivered-to-node>
    <jdiameterd-peer-forwarding-successes>jdiameterd-peer-forwarding-successes
                </jdiameterd-peer-forwarding-successes>

<jdiameterd-peer-messages-transmitted-by-self>jdiameterd-peer-messages-transmitted-
by-self
                </jdiameterd-peer-messages-transmitted-by-self>
    <jdiameterd-peer-transmit-successes>jdiameterd-peer-transmit-successes
                </jdiameterd-peer-transmit-successes>
  </jdiameterd-peer-statistics-list>
</jdiameterd-peer-statistics-information>
```

Description Peer statiscs summary.

Contents

<jdiameterd-peer-forwarding-successes>—Number of successfull forward operations.

<jdiameterd-peer-instance-name>—Instance name for a peer.

<jdiameterd-peer-messages-transmitted-by-self>—Number of messages submitted for transition by the peer itself.

<jdiameterd-peer-name>—Peer name.

<jdiameterd-peer-receive-messages-delivered-to-node>—Number of messages delivered to upper layer.

<jdiameterd-peer-receive-messages-handled-by-peer>—Number of messaged handled by the peer itself.

<jdiameterd-peer-receive-successes>—Number of successfully received messages.

<jdiameterd-peer-transmit-successes>—Number of successfully transmitted messages.

<jdiameterd-route-brief>

Usage

```
<jdiameterd-route-information>
  <jdiameterd-route-brief>
    <jdiameterd-route-name>jdiameterd-route-name</jdiameterd-route-name>
    <jdiameterd-route-network-element-name>jdiameterd-route-network-element-name
            </jdiameterd-route-network-element-name>
    <jdiameterd-route-instance-name>jdiameterd-route-instance-name
            </jdiameterd-route-instance-name>
    <jdiameterd-route-valid>jdiameterd-route-valid</jdiameterd-route-valid>
    <jdiameterd-route-up>jdiameterd-route-up</jdiameterd-route-up>
  </jdiameterd-route-brief>
</jdiameterd-route-information>
```

Description Diameter routes.

Contents <jdiameterd-route-instance-name>—Instance name for a route.

<jdiameterd-route-name>—The name of a route.

<jdiameterd-route-network-element-name>—Network-element name for a route.

<jdiameterd-route-up>—Validity of a route.

<jdiameterd-route-valid>—Validity of a route.

<jdiameterd-route-data>

Usage

```
<jdiameterd-route-information>
  <jdiameterd-route-data>
    <jdiameterd-route-name>jdiameterd-route-name</jdiameterd-route-name>
    <jdiameterd-route-network-element-name>jdiameterd-route-network-element-name
            </jdiameterd-route-network-element-name>
    <jdiameterd-route-instance-name>jdiameterd-route-instance-name
            </jdiameterd-route-instance-name>
    <jdiameterd-route-valid>jdiameterd-route-valid</jdiameterd-route-valid>
    <jdiameterd-route-up>jdiameterd-route-up</jdiameterd-route-up>
    <jdiameterd-route-function>jdiameterd-route-function
            </jdiameterd-route-function>
    <jdiameterd-route-function-part>jdiameterd-route-function-part
            </jdiameterd-route-function-part>
    <jdiameterd-route-dest-realm>jdiameterd-route-dest-realm
            </jdiameterd-route-dest-realm>
    <jdiameterd-route-dest-host>jdiameterd-route-dest-host
            </jdiameterd-route-dest-host>
    <jdiameterd-route-metric>jdiameterd-route-metric</jdiameterd-route-metric>
    <jdiameterd-route-score>jdiameterd-route-score</jdiameterd-route-score>
  </jdiameterd-route-data>
</jdiameterd-route-information>
```

Description Diameter routes.

Contents <jdiameterd-route-dest-host>—The destination host for a route.

<jdiameterd-route-dest-realm>—The destination realm for a route.

<jdiameterd-route-function>—The function for a route.

<jdiameterd-route-function-part>—The function partition for a route.

<jdiameterd-route-instance-name>—Instance name for a route.

<jdiameterd-route-metric>—The metric for a route.

<jdiameterd-route-name>—The name of a route.

<jdiameterd-route-network-element-name>—Network-element name for a route.

<jdiameterd-route-score>—The score (metric tie breaker) for a route.

<jdiameterd-route-up>—Validity of a route.

<jdiameterd-route-valid>—Validity of a route.

<jdiameterd-route-information>

Usage

```
<rpc-reply>
  <jdiameterd-route-information>
    <jdiameterd-route-list>...</jdiameterd-route-list>
    <jdiameterd-route-brief>...</jdiameterd-route-brief>
    <jdiameterd-route-data>...</jdiameterd-route-data>
    <jdiameterd-route-not-found>jdiameterd-route-not-found
                </jdiameterd-route-not-found>
    <jdiameterd-route-error>jdiameterd-route-error</jdiameterd-route-error>
  </jdiameterd-route-information>
</rpc-reply>
```

Description Diameter route information.

Contents <jdiameterd-route-brief>—Diameter routes.

<jdiameterd-route-data>—Diameter routes.

<jdiameterd-route-error>—No documentation is available yet.

<jdiameterd-route-list>—Diameter routes.

<jdiameterd-route-not-found>—Requested route is not found.

<jdiameterd-route-list>

Usage

```
<jdiameterd-node-information | jdiameterd-route-information>
  <jdiameterd-route-list>
    <jdiameterd-route-name>jdiameterd-route-name</jdiameterd-route-name>
    <jdiameterd-route-network-element-name>jdiameterd-route-network-element-name
                </jdiameterd-route-network-element-name>
    <jdiameterd-route-instance-name>jdiameterd-route-instance-name
                </jdiameterd-route-instance-name>
    <jdiameterd-route-valid>jdiameterd-route-valid</jdiameterd-route-valid>
    <jdiameterd-route-up>jdiameterd-route-up</jdiameterd-route-up>
  </jdiameterd-route-list>
</jdiameterd-node-information | jdiameterd-route-information>
```

Description Diameter routes.

Contents <jdiameterd-route-instance-name>—Instance name for a route.

<jdiameterd-route-name>—The name of a route.

<jdiameterd-route-network-element-name>—Network-element name for a route.

<jdiameterd-route-up>—Validity of a route.

<jdiameterd-route-valid>—Validity of a route.

Summary of J20 GGSN Response Tags

This section lists JUNOS XML tags that contain operational information about the J20 gateway GPRS support node (GGSN). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ggsn. To review the DTD for the tags, see "DTD for J20 GGSN Response Tags" on page 2251.

<apn-pdp-context-deletion-results>

Usage

```
<rpc-reply>
  <apn-pdp-context-deletion-results>
    <apn-name>apn-name</apn-name>
    <user-category>user-category</user-category>
    <interface-pdp-context-deletion-information>...
                    </interface-pdp-context-deletion-information>
  </apn-pdp-context-deletion-results>
</rpc-reply>
```

Description Results for an APN-wide PDP context deletion command.

Contents <apn-name>—APN for this context.

<interface-pdp-context-deletion-information>—Information about PDP context deletion on a per-interface basis.

<user-category>—User category.

<apn-statistics>

Usage

```
<apn-statistics-information>
  <apn-statistics>
    <name>name</name>
    <pdp-context-statistics>...</pdp-context-statistics>
    <gtp-error-statistics>...</gtp-error-statistics>
    <uplink>...</uplink>
    <downlink>...</downlink>
    <ggsn-pdp-per-user-category>...</ggsn-pdp-per-user-category>
    <radius-statistics-information>...</radius-statistics-information>
    <rulespace-based-charging-statistics>...</rulespace-based-charging-statistics>
    <signalling>...</signalling>
    <tft-filter-count>tft-filter-count</tft-filter-count>
    <neighbor-solicitation-req-received>neighbor-solicitation-req-received
            </neighbor-solicitation-req-received>
    <neighbor-solicitation-req-responded>neighbor-solicitation-req-responded
            </neighbor-solicitation-req-responded>
    <router-solicitation-req-received>router-solicitation-req-received
            </router-solicitation-req-received>
    <router-solicitation-req-responded>router-solicitation-req-responded
            </router-solicitation-req-responded>
  </apn-statistics>
</apn-statistics-information>
```

Description Statistics for a single APN.

Contents

<downlink>—Link traffic in the downlink direction.

<ggsn-pdp-per-user-category>—Active PDP per user category.

<gtp-error-statistics>—GTP error statistics.

<name>—No documentation is available yet.

<neighbor-solicitation-req-received>—Number of IPv6 ND neighbor solicitation requests received by U.

<neighbor-solicitation-req-responded>—Number of IPv6 ND neighbor solicitation responses sent by U.

<pdp-context-statistics>—Information about PDP context events.

<radius-statistics-information>—Radius statistics.

<router-solicitation-req-received>—Number of IPv6 ND router solicitation requests received by U.

<router-solicitation-req-responded>—Number of IPv6 ND router solicitation responses sent by U.

<rulespace-based-charging-statistics>—Information about rule spaces.

<signalling>—Signaling traffic.

<tft-filter-count>—Number of traffic flow template filters in use.

<uplink>—Link traffic in the uplink direction.

<apn-statistics-information>

Usage
```
<rpc-reply>
  <apn-statistics-information>
    <apn-statistics>...</apn-statistics>
    <sbcc-statistics-information>...</sbcc-statistics-information>
    <service-based-charging-for-gx>...</service-based-charging-for-gx>
  </apn-statistics-information>
</rpc-reply>
```

Description APN statistics for the GGSN.

Contents <apn-statistics>—Statistics for a single APN.

<sbcc-statistics-information>—Service-based charging statistics.

<service-based-charging-for-gx>—Service-base charging statistics for the gx interface.

<authorization-discard-information>

Usage
```
<sbcc-statistics-information>
  <authorization-discard-information>
    <authorization-discard-statistics>...</authorization-discard-statistics>
  </authorization-discard-information>
</sbcc-statistics-information>
```

Description No documentation is available yet.

Contents <authorization-discard-statistics>—Statistics for authorization-based packet discards.

<authorization-discard-statistics>

Usage
```
<authorization-discard-information>
  <authorization-discard-statistics>
    <service-class-source>service-class-source</service-class-source>
    <packets>packets</packets>
    <bytes>bytes</bytes>
  </authorization-discard-statistics>
</authorization-discard-information>
```

Description Statistics for authorization-based packet discards.

Contents <bytes>—Count of bytes.

<packets>—Count of packets.

<service-class-source>—Service class list source.

<billing-gateway>

Usage
```
<gtp-prime-statistics-information>
  <billing-gateway>
    <address>address</address>
    <time-connected>time-connected</time-connected>
  </billing-gateway>
</gtp-prime-statistics-information>
```

Description Active billing gateway information.

Contents <address>—No documentation is available yet.

<time-connected>—Time at which a connection was made to a server.

<call-trace>

Usage
```
<call-trace-information>
  <call-trace>
    <imsi>imsi</imsi>
    <msisdn>msisdn</msisdn>
    <time-started>time-started</time-started>
    <nsapi-information>...</nsapi-information>
  </call-trace>
</call-trace-information>
```

Description Information about a GGSN node call trace.

Contents <imsi>—International Mobile Subscriber Identity for user.

<msisdn>—Mobile Station Integrated Services Digital Network number for user.

<nsapi-information>—List of NSAPIs associated with user.

<time-started>—Time at which the service started.

<call-trace-information>

Usage
```
<rpc-reply>
  <call-trace-information>
    <number-enabled>number-enabled</number-enabled>
    <number-active>number-active</number-active>
    <call-trace>...</call-trace>
  </call-trace-information>
</rpc-reply>
```

Description Information about call traces enabled for the GGSN node.

Contents <call-trace>—Information about a GGSN node call trace.

<number-active>—Number of call traces that are active.

<number-enabled>—Number of call traces that are set up.

<ccas-information>

Usage

```
<sbcc-statistics-information>
  <ccas-information>
    <ccas-statistics>...</ccas-statistics>
  </ccas-information>
</sbcc-statistics-information>
```

Description Information about credit control application systems.

Contents <ccas-statistics>—Statistics for a credit control application system.

<ccas-statistics>

Usage

```
<ccas-information>
  <ccas-statistics>
    <ccas-identifier>ccas-identifier</ccas-identifier>
    <ccas-start-request>ccas-start-request</ccas-start-request>
    <ccas-start-request-failed>ccas-start-request-failed
                </ccas-start-request-failed>
    <ccas-update-request>ccas-update-request</ccas-update-request>
    <ccas-update-request-failed>ccas-update-request-failed
                </ccas-update-request-failed>
    <ccas-stop-request>ccas-stop-request</ccas-stop-request>
    <ccas-stop-request-failed>ccas-stop-request-failed</ccas-stop-request-failed>
    <ccas-user-service-denied>ccas-user-service-denied</ccas-user-service-denied>
    <ccas-user-unknown>ccas-user-unknown</ccas-user-unknown>
    <ccas-authorization-failure>ccas-authorization-failure
                </ccas-authorization-failure>
    <ccas-cc-not-applicable>ccas-cc-not-applicable</ccas-cc-not-applicable>
  </ccas-statistics>
</ccas-information>
```

Description Statistics for a credit control application system.

Contents <ccas-authorization-failure>—Failed CC-AS requests due to result code Authorization Rejected.

<ccas-cc-not-applicable>—Credit control not applicable.

<ccas-identifier>—Credit control application system identifier.

<ccas-start-request>—CC-AS start requests.

<ccas-start-request-failed>—CC-AS start requests failed.

<ccas-stop-request>—CC-AS stop requests.

<ccas-stop-request-failed>—CC-AS stop requests failed.

<ccas-update-request>—CC-AS update requests.

<ccas-update-request-failed>—CC-AS update requests failed.

<ccas-user-service-denied>—CC-AS requests failed with user service denied.

<ccas-user-unknown>—CC-AS requests failed with user unknown.

<ccr-statistics>

Usage

```
<service-based-charging-for-gx>
  <ccr-statistics>
    <ccr-identifier>ccr-identifier</ccr-identifier>
    <authorization-failure>authorization-failure</authorization-failure>
    <authentication-failure>authentication-failure</authentication-failure>
    <session-failure>session-failure</session-failure>
  </ccr-statistics>
</service-based-charging-for-gx>
```

Description Statistics for a credit control application system.

Contents <authentication-failure>—Failed CC requests due to result code Authentication Rejected.

<authorization-failure>—Failed CC requests due to result code Authorization Rejected.

<ccr-identifier>—Credit control application system identifier.

<session-failure>—Failed CC requests due to result code Unknown Session ID.

<charging-statistics-information>

Usage

```
<ggsn-statistics>
  <charging-statistics-information>
    <encoded-cdrs>encoded-cdrs</encoded-cdrs>
    <failed-encoded-cdrs>failed-encoded-cdrs</failed-encoded-cdrs>
    <generated-ftp-cdrs>generated-ftp-cdrs</generated-ftp-cdrs>
    <generated-gtpp-cdrs>generated-gtpp-cdrs</generated-gtpp-cdrs>
    <gtpp-log-cdrs>gtpp-log-cdrs</gtpp-log-cdrs>
    <gtpp-send-attempted-cdrs>gtpp-send-attempted-cdrs</gtpp-send-attempted-cdrs>
    <gtpp-send-failed-cdrs>gtpp-send-failed-cdrs</gtpp-send-failed-cdrs>
  </charging-statistics-information>
</ggsn-statistics>
```

Description Charging statistics.

Contents <encoded-cdrs>—Number of encoded CDRs.

<failed-encoded-cdrs>—Number of CDRs that failed encoding.

<generated-ftp-cdrs>—Number of CDRs generated for FTP.

<generated-gtpp-cdrs>—Number of CDRs generated for GTP prime.

<gtpp-log-cdrs>—Number of GTP prime CDRs stored in the charging log.

<gtpp-send-attempted-cdrs>—Number of CDRs attempted to be sent for GTP prime.

<gtpp-send-failed-cdrs>—Number of CDRs failed to be sent for GTP prime.

<cpu-info>

Usage
```
<resources>
  <cpu-info>
    <cpu-id>cpu-id</cpu-id>
    <cpu-load>cpu-load</cpu-load>
  </cpu-info>
</resources>
```

Description CPU usage.

Contents <cpu-id>—CPU ID.

<cpu-load>—CPU usage (percentage).

<das-information>

Usage
```
<sbcc-statistics-information>
  <das-information>
    <das-statistics>...</das-statistics>
  </das-information>
</sbcc-statistics-information>
```

Description Information about diameter application systems.

Contents <das-statistics>—Statistics for a diameter application system.

<das-statistics>

Usage
```
<das-information>
  <das-statistics>
    <das-identifier>das-identifier</das-identifier>
    <request>request</request>
  </das-statistics>
</das-information>
```

Description Statistics for a diameter application system.

Contents <das-identifier>—Diameter application system identifier.

<request>—Requests.

<data-record-transfer-statistics>

Usage

```
<gtp-prime-statistics>
  <data-record-transfer-statistics>
    <request-transmitted>request-transmitted</request-transmitted>
    <response-received>response-received</response-received>
    <request-accepted>request-accepted</request-accepted>
    <error-no-resources>error-no-resources</error-no-resources>
    <error-service-unsupported>error-service-unsupported
                </error-service-unsupported>
    <error-system-failure>error-system-failure</error-system-failure>
    <error-invalid-request-format>error-invalid-request-format
                </error-invalid-request-format>
    <error-version-unsupported>error-version-unsupported
                </error-version-unsupported>
    <error-request-unfulfilled>error-request-unfulfilled
                </error-request-unfulfilled>
    <error-decoding-error>error-decoding-error</error-decoding-error>
    <error-already-fulfilled>error-already-fulfilled</error-already-fulfilled>
    <error-duplicate-packet-fulfilled>error-duplicate-packet-fulfilled
                </error-duplicate-packet-fulfilled>
    <send-data-record-packet>send-data-record-packet</send-data-record-packet>
  </data-record-transfer-statistics>
</gtp-prime-statistics>
```

Description GTP Prime data record transfer statistics.

Contents

<error-already-fulfilled>—Failed with error: already fulfilled.

<error-decoding-error>—Failed with error: decoding error.

<error-duplicate-packet-fulfilled>—Failed with error: duplicate packet fulfilled.

<error-invalid-request-format>—Failed with error: invalid message format.

<error-no-resources>—Failed with error: no resources.

<error-request-unfulfilled>—Failed with error: request unfulfilled.

<error-service-unsupported>—Failed with error: service unsupported.

<error-system-failure>—Failed with error: system failure.

<error-version-unsupported>—Failed with error: version unsupported.

<request-accepted>—Requests that were accepted.

<request-transmitted>—Requests sent.

<response-received>—Responses received.

<send-data-record-packet>—Number of data transfer request send data record packets sent.

<downlink>

Usage

```
<ggsn-statistics | apn-statistics | sgsn-statistics>
  <downlink>
    <packets>packets</packets>
    <packets-ipv6>packets-ipv6</packets-ipv6>
    <bytes>bytes</bytes>
    <bytes-ipv6>bytes-ipv6</bytes-ipv6>
    <dropped-packets>dropped-packets</dropped-packets>
    <dropped-packets-ipv6>dropped-packets-ipv6</dropped-packets-ipv6>
    <dropped-bytes>dropped-bytes</dropped-bytes>
    <dropped-bytes-ipv6>dropped-bytes-ipv6</dropped-bytes-ipv6>
  </downlink>
</ggsn-statistics | apn-statistics | sgsn-statistics>
```

Description Link traffic in the downlink direction.

Contents <bytes>—Count of bytes.

<bytes-ipv6>—Count of bytes for IPv6.

<dropped-bytes>—Count of packet dropped bytes.

<dropped-bytes-ipv6>—Count of packet dropped bytes for IPv6.

<dropped-packets>—Count of packet drops.

<dropped-packets-ipv6>—Count of packet drops for IPv6.

<packets>—Count of packets.

<packets-ipv6>—Count of packets for IPv6.

<echo-request-statistics>

Usage

```
<gtp-statistics | gtp-prime-statistics>
  <echo-request-statistics>
    <request-received>request-received</request-received>
    <request-transmitted>request-transmitted</request-transmitted>
    <response-received>response-received</response-received>
    <response-transmitted>response-transmitted</response-transmitted>
  </echo-request-statistics>
</gtp-statistics | gtp-prime-statistics>
```

Description Echo request information.

Contents <request-received>—Requests received.

<request-transmitted>—Requests sent.

<response-received>—Responses received.

<response-transmitted>—Responses sent.

<ggsn-interface>

Usage

```
<ggsn-interface-information>
  <ggsn-interface>
    <service-interface>service-interface</service-interface>
    <weighted-pdp-context-load-in-payload>weighted-pdp-context-load-in-payload
                </weighted-pdp-context-load-in-payload>
    <weighted-pdp-context-load-in-control>weighted-pdp-context-load-in-control
                </weighted-pdp-context-load-in-control>
    <external-address>external-address</external-address>
    <internal-address>internal-address</internal-address>
    <operating-function>operating-function</operating-function>
    <hardware-version>hardware-version</hardware-version>
    <software-version>software-version</software-version>
    <pdp>...</pdp>
    <resources>...</resources>
    <tft-statistics>...</tft-statistics>
    <time-started>time-started</time-started>
    <sbcc-statistics-information>...</sbcc-statistics-information>
  </ggsn-interface>
</ggsn-interface-information>
```

Description Information about GGSN-C and GGSN-U service interfaces.

Contents

<external-address>—External address for the PIC.

<hardware-version>—PIC hardware version.

<internal-address>—Internal address for the PIC.

<operating-function>—Current cluster function for the PIC.

<pdp>—PDP context information.

<resources>—CPU and memory information for a PIC.

<sbcc-statistics-information>—Service-based charging statistics.

<service-interface>—Service interface for the information.

<software-version>—GGSN service software version.

<tft-statistics>—No documentation is available yet.

<time-started>—Time at which the service started.

<weighted-pdp-context-load-in-control>—No documentation is available yet.

<weighted-pdp-context-load-in-payload>—No documentation is available yet.

<ggsn-interface-information>

Usage
```
<rpc-reply>
  <ggsn-interface-information>
    <ggsn-interface>...</ggsn-interface>
  </ggsn-interface-information>
</rpc-reply>
```

Description GGSN PIC information.

Contents <ggsn-interface>—Information about GGSN-C and GGSN-U service interfaces.

<ggsn-pdp-per-user-category>

Usage
```
<apn-statistics>
  <ggsn-pdp-per-user-category>
    <user-category-line>...</user-category-line>
  </ggsn-pdp-per-user-category>
</apn-statistics>
```

Description Active PDP per user category.

Contents <user-category-line>—No documentation is available yet.

<ggsn-statistics>

Usage

```
<rpc-reply>
  <ggsn-statistics>
    <time-started>time-started</time-started>
    <pdp-context-statistics>...</pdp-context-statistics>
    <interface-pdp-context-statistics-information>...
                </interface-pdp-context-statistics-information>
    <subscriber-count>subscriber-count</subscriber-count>
    <uplink>...</uplink>
    <downlink>...</downlink>
    <tft-filter-count>tft-filter-count</tft-filter-count>
    <wlan-pdp-context-activation-procedures>wlan-pdp-context-activation-procedures
                </wlan-pdp-context-activation-procedures>
    <wlan-processed-uplink-bytes>wlan-processed-uplink-bytes
                </wlan-processed-uplink-bytes>
    <wlan-dropped-uplink-packets>wlan-dropped-uplink-packets
                </wlan-dropped-uplink-packets>
    <wlan-processed-uplink-packets>wlan-processed-uplink-packets
                </wlan-processed-uplink-packets>
    <wlan-completed-pdp-context-activations>wlan-completed-pdp-context-activations
                </wlan-completed-pdp-context-activations>
    <wlan-active-pdp-contexts>wlan-active-pdp-contexts</wlan-active-pdp-contexts>
    <wlan-processed-downlink-bytes>wlan-processed-downlink-bytes
                </wlan-processed-downlink-bytes>
    <wlan-dropped-downlink-packets>wlan-dropped-downlink-packets
                </wlan-dropped-downlink-packets>
    <wlan-processed-downlink-packets>wlan-processed-downlink-packets
                </wlan-processed-downlink-packets>
    <weighted-pdp-context-load>...</weighted-pdp-context-load>
    <sbcc-statistics-information>...</sbcc-statistics-information>
    <charging-statistics-information>...</charging-statistics-information>
    <radius-statistics-information>...</radius-statistics-information>
  </ggsn-statistics>
</rpc-reply>
```

Description Global statistics for the GGSN node.

Contents

<charging-statistics-information>—Charging statistics.

<downlink>—Link traffic in the downlink direction.

<interface-pdp-context-statistics-information>—No documentation is available yet.

<pdp-context-statistics>—Information about PDP context events.

<radius-statistics-information>—Radius statistics.

<sbcc-statistics-information>—Service-based charging statistics.

<subscriber-count>—Number of subscribers currently serviced by this GGSN.

<tft-filter-count>—Number of traffic flow template filters in use.

<time-started>—Time at which the service started.

<uplink>—Link traffic in the uplink direction.

<weighted-pdp-context-load>—No documentation is available yet.

<wlan-active-pdp-contexts>—Number of active WLAN PDP contexts.

<wlan-completed-pdp-context-activations>—Number of completed WLAN PDP context activations.

<wlan-dropped-downlink-packets>—Total WLAN downlink packets dropped by this GGSN.

<wlan-dropped-uplink-packets>—Number of dropped WLAN packets in uplink direction.

<wlan-pdp-context-activation-procedures>—Number of WLAN PDP context activation procedures initiaded by MS.

<wlan-processed-downlink-bytes>—Total WLAN downlink bytes processed by this GGSN.

<wlan-processed-downlink-packets>—Total WLAN downlink packets processed by this GGSN.

<wlan-processed-uplink-bytes>—Total bytes for all processed uplink WLAN packets via this GGSN.

<wlan-processed-uplink-packets>—Total WLAN uplink packets processed by this GGSN.

<gtp-error-statistics>

Usage <gtp-statistics | apn-statistics | sgsn-statistics>

```
<gtp-error-statistics>
  <request-accepted>request-accepted</request-accepted>
  <error-indication-received>error-indication-received
        </error-indication-received>
  <error-indication-transmitted>error-indication-transmitted
        </error-indication-transmitted>
  <error-version-unsupported>error-version-unsupported
        </error-version-unsupported>
  <error-invalid-request-format>error-invalid-request-format
        </error-invalid-request-format>
  <error-invalid-request-format-when-update>error-invalid-request-format-when-update
        </error-invalid-request-format-when-update>
  <error-invalid-request-format-when-delete>error-invalid-request-format-when-delete
        </error-invalid-request-format-when-delete>
  <error-no-resources>error-no-resources</error-no-resources>
  <error-no-dynamic-address-available>error-no-dynamic-address-available
        </error-no-dynamic-address-available>
  <error-no-memory>error-no-memory</error-no-memory>
  <error-unknown-apn>error-unknown-apn</error-unknown-apn>
  <error-unknown-pdp-address-or-type>error-unknown-pdp-address-or-type
        </error-unknown-pdp-address-or-type>
  <error-authentication-failed>error-authentication-failed
        </error-authentication-failed>
  <error-system-failure>error-system-failure</error-system-failure>
  <error-system-failure-when-update>error-system-failure-when-update
        </error-system-failure-when-update>
  <error-tft-error-semantic>error-tft-error-semantic</error-tft-error-semantic>
  <error-tft-error-semantic-when-update>error-tft-error-semantic-when-update
        </error-tft-error-semantic-when-update>
  <error-tft-error-syntax>error-tft-error-syntax</error-tft-error-syntax>
  <error-tft-error-syntax-when-update>error-tft-error-syntax-when-update
        </error-tft-error-syntax-when-update>
  <error-packet-filter-semantic>error-packet-filter-semantic
        </error-packet-filter-semantic>
  <error-packet-filter-semantic-when-update>error-packet-filter-semantic-when-update
        </error-packet-filter-semantic-when-update>
  <error-packet-filter-syntax>error-packet-filter-syntax
        </error-packet-filter-syntax>
  <error-packet-filter-syntax-when-update>error-packet-filter-syntax-when-update
        </error-packet-filter-syntax-when-update>
  <error-mandatory-ie-missing>error-mandatory-ie-missing
        </error-mandatory-ie-missing>
  <error-mandatory-ie-missing-when-update>error-mandatory-ie-missing-when-update
        </error-mandatory-ie-missing-when-update>
  <error-mandatory-ie-missing-when-delete>error-mandatory-ie-missing-when-delete
        </error-mandatory-ie-missing-when-delete>
  <error-mandatory-ie-invalid>error-mandatory-ie-invalid
        </error-mandatory-ie-invalid>
  <error-mandatory-ie-invalid-when-update>error-mandatory-ie-invalid-when-update
        </error-mandatory-ie-invalid-when-update>
  <error-mandatory-ie-invalid-when-delete>error-mandatory-ie-invalid-when-delete
```

```
                    </error-mandatory-ie-invalid-when-delete>
    <error-optional-ie-invalid>error-optional-ie-invalid
                    </error-optional-ie-invalid>
    <error-optional-ie-invalid-when-update>error-optional-ie-invalid-when-update
                    </error-optional-ie-invalid-when-update>
    <error-optional-ie-invalid-when-delete>error-optional-ie-invalid-when-delete
                    </error-optional-ie-invalid-when-delete>
    <error-reference-invalid>error-reference-invalid</error-reference-invalid>
    <error-reference-invalid-when-update>error-reference-invalid-when-update
                    </error-reference-invalid-when-update>
    <error-reference-invalid-when-delete>error-reference-invalid-when-delete
                    </error-reference-invalid-when-delete>
    <error-service-unsupported>error-service-unsupported
                    </error-service-unsupported>
    <error-already-activated>error-already-activated</error-already-activated>
    <error-access-denied>error-access-denied</error-access-denied>
  </gtp-error-statistics>
</gtp-statistics | apn-statistics | sgsn-statistics>
```

Description GTP error statistics.

Contents <error-access-denied>—PDP context create failed with error: Access denied.

<error-already-activated>—PDP context create failed with error: already activated.

<error-authentication-failed>—Failed with error: authentication failed.

<error-indication-received>—Error indications received.

<error-indication-transmitted>—Error indications sent.

<error-invalid-request-format>—Failed with error: invalid message format.

<error-invalid-request-format-when-delete>—PDP context delete failed with error: invalid message format.

<error-invalid-request-format-when-update>—PDP context update failed with error: invalid message format.

<error-mandatory-ie-invalid>—Failed with error: mandatory information element invalid.

<error-mandatory-ie-invalid-when-delete>—PDP context update failed with error: mandatory information element invalid.

<error-mandatory-ie-invalid-when-update>—PDP context update failed with error: mandatory information element invalid.

<error-mandatory-ie-missing>—Failed with error: mandatory information element missing.

<error-mandatory-ie-missing-when-delete>—PDP context delete failed with error: mandatory information element missing.

<error-mandatory-ie-missing-when-update>—PDP context update failed with error:

mandatory information element missing.

<error-no-dynamic-address-available>—Failed with error: no dynamic address available.

<error-no-memory>—Failed with error: no memory.

<error-no-resources>—Failed with error: no resources.

<error-optional-ie-invalid>—Failed with error: optional information element invalid.

<error-optional-ie-invalid-when-delete>—PDP context delete failed with error: optional information element invalid.

<error-optional-ie-invalid-when-update>—PDP context update failed with error: optional information element invalid.

<error-packet-filter-semantic>—Failed with error: packet filtering semantic error.

<error-packet-filter-semantic-when-update>—PDP context update failed with error: packet filtering semantic error.

<error-packet-filter-syntax>—Failed with error: packet filtering syntax error.

<error-packet-filter-syntax-when-update>—PDP context update failed with error: packet filtering syntax error.

<error-reference-invalid>—Failed with error: invalid reference.

<error-reference-invalid-when-delete>—PDP context delete failed with error: invalid reference.

<error-reference-invalid-when-update>—PDP context update failed with error: invalid reference.

<error-service-unsupported>—Failed with error: service unsupported.

<error-system-failure>—Failed with error: system failure.

<error-system-failure-when-update>—PDP context update failed with error: system failure.

<error-tft-error-semantic>—Failed with error: TFT semantic error.

<error-tft-error-semantic-when-update>—PDP context update failed with error: TFT semantic error.

<error-tft-error-syntax>—Failed with error: TFT syntax error.

<error-tft-error-syntax-when-update>—PDP context failed with error: TFT syntax error.

<error-unknown-apn>—Failed with error: unknown APN.

<error-unknown-pdp-address-or-type>—Failed with error: unknown PDP address or

type.

<error-version-unsupported>—Failed with error: version unsupported.

<request-accepted>—Requests that were accepted.

<gtp-prime-error-statistics>

Usage

```
<gtp-prime-statistics>
  <gtp-prime-error-statistics>
    <error-mandatory-ie-missing>error-mandatory-ie-missing
                </error-mandatory-ie-missing>
    <error-mandatory-ie-invalid>error-mandatory-ie-invalid
                </error-mandatory-ie-invalid>
    <error-optional-ie-invalid>error-optional-ie-invalid
                </error-optional-ie-invalid>
    <error-reference-invalid>error-reference-invalid</error-reference-invalid>
  </gtp-prime-error-statistics>
</gtp-prime-statistics>
```

Description GTP Prime error statistics.

Contents <error-mandatory-ie-invalid>—Failed with error: mandatory information element invalid.

<error-mandatory-ie-missing>—Failed with error: mandatory information element missing.

<error-optional-ie-invalid>—Failed with error: optional information element invalid.

<error-reference-invalid>—Failed with error: invalid reference.

<gtp-prime-statistics>

Usage

```
<gtp-prime-statistics-information>
  <gtp-prime-statistics>
    <service-interface>service-interface</service-interface>
    <echo-request-statistics>...</echo-request-statistics>
    <version-unsupported-statistics>...</version-unsupported-statistics>
    <node-alive-request-statistics>...</node-alive-request-statistics>
    <redirection-request-statistics>...</redirection-request-statistics>
    <data-record-transfer-statistics>...</data-record-transfer-statistics>
    <gtp-prime-error-statistics>...</gtp-prime-error-statistics>
  </gtp-prime-statistics>
</gtp-prime-statistics-information>
```

Description GTP Prime statistics information.

Contents <data-record-transfer-statistics>—GTP Prime data record transfer statistics.

<echo-request-statistics>—Echo request information.

<gtp-prime-error-statistics>—GTP Prime error statistics.

<node-alive-request-statistics>—GTP Prime node alive request statistics.

<redirection-request-statistics>—GTP Prime redirection request statistics.

<service-interface>—Service interface for the information.

<version-unsupported-statistics>—Version unsupported message information.

<gtp-prime-statistics-information>

Usage

```
<rpc-reply>
  <gtp-prime-statistics-information>
    <billing-gateway>...</billing-gateway>
    <gtp-prime-statistics>...</gtp-prime-statistics>
  </gtp-prime-statistics-information>
</rpc-reply>
```

Description GTP Prime statistics information.

Contents <billing-gateway>—Active billing gateway information.

<gtp-prime-statistics>—GTP Prime statistics information.

<gtp-statistics>

Usage

```
<gtp-statistics-information>
  <gtp-statistics>
    <service-interface>service-interface</service-interface>
    <uplink-packets>uplink-packets</uplink-packets>
    <uplink-bytes>uplink-bytes</uplink-bytes>
    <downlink-packets>downlink-packets</downlink-packets>
    <downlink-bytes>downlink-bytes</downlink-bytes>
    <dropped-packets>dropped-packets</dropped-packets>
    <active-tunnels>active-tunnels</active-tunnels>
    <created-tunnels>created-tunnels</created-tunnels>
    <echo-request-statistics>...</echo-request-statistics>
    <version-unsupported-statistics>...</version-unsupported-statistics>
    <pdp-request-statistics>...</pdp-request-statistics>
    <gtp-error-statistics>...</gtp-error-statistics>
  </gtp-statistics>
</gtp-statistics-information>
```

Description GTP statistics information.

Contents

<active-tunnels>—Number of currently active tunnels.

<created-tunnels>—Total number of created tunnels since last node controller restart.

<downlink-bytes>—Bytes in the downlink direction.

<downlink-packets>—Packets in the downlink direction.

<dropped-packets>—Count of packet drops.

<echo-request-statistics>—Echo request information.

<gtp-error-statistics>—GTP error statistics.

<pdp-request-statistics>—PDP context request statistics.

<service-interface>—Service interface for the information.

<uplink-bytes>—Bytes in the uplink direction.

<uplink-packets>—Packets in the uplink direction.

<version-unsupported-statistics>—Version unsupported message information.

<gtp-statistics-information>

Usage
```
<rpc-reply>
  <gtp-statistics-information>
    <gtp-statistics>...</gtp-statistics>
  </gtp-statistics-information>
</rpc-reply>
```

Description GTP statistics information.

Contents <gtp-statistics>—GTP statistics information.

<incoming>

Usage
```
<signalling>
  <incoming>
    <packets>packets</packets>
    <bytes>bytes</bytes>
  </incoming>
</signalling>
```

Description No documentation is available yet.

Contents <bytes>—Count of bytes.

<packets>—Count of packets.

<inspection-information>

Usage
```
<rpc-reply>
  <inspection-information>
    <packet-inspection>packet-inspection</packet-inspection>
  </inspection-information>
</rpc-reply>
```

Description Packet inspection related information.

Contents <packet-inspection>—Packet inspection details.

<interface-action-results>

Usage
```
<rpc-reply>
  <interface-action-results>
    <interface-action>interface-action</interface-action>
    <service-interface>service-interface</service-interface>
    <daemon-name>daemon-name</daemon-name>
  </interface-action-results>
</rpc-reply>
```

Description Results of an interface action.

Contents <daemon-name>—Daemon being restarted.

<interface-action>—Actions performed on service interfaces.

<service-interface>—Service interface for the information.

<interface-pdp-context-deletion>

Usage
```
<interface-pdp-context-deletion-information>
  <interface-pdp-context-deletion>
    <pdp-deleted>pdp-deleted</pdp-deleted>
    <service-interface>service-interface</service-interface>
  </interface-pdp-context-deletion>
</interface-pdp-context-deletion-information>
```

Description No documentation is available yet.

Contents <pdp-deleted>—Total number of PDP contexts deleted.

<service-interface>—Service interface for the information.

<interface-pdp-context-deletion-information>

Usage
```
<apn-pdp-context-deletion-results>
  <interface-pdp-context-deletion-information>
    <interface-pdp-context-deletion>...</interface-pdp-context-deletion>
  </interface-pdp-context-deletion-information>
</apn-pdp-context-deletion-results>
```

Description Information about PDP context deletion on a per-interface basis.

Contents <interface-pdp-context-deletion>—No documentation is available yet.

<interface-pdp-context-statistics>

Usage

```
<interface-pdp-context-statistics-information>
  <interface-pdp-context-statistics>
    <service-interface>service-interface</service-interface>
    <pdp-context-statistics>...</pdp-context-statistics>
  </interface-pdp-context-statistics>
</interface-pdp-context-statistics-information>
```

Description Interface-level PDP context statistics.

Contents <pdp-context-statistics>—Information about PDP context events.

<service-interface>—Service interface for the information.

<interface-pdp-context-statistics-information>

Usage

```
<ggsn-statistics>
  <interface-pdp-context-statistics-information>
    <interface-pdp-context-statistics>...</interface-pdp-context-statistics>
  </interface-pdp-context-statistics-information>
</ggsn-statistics>
```

Description No documentation is available yet.

Contents <interface-pdp-context-statistics>—Interface-level PDP context statistics.

<l2tp-tunnel-packet-statistics>

Usage
```
<l2tp-tunnel-statistics>
  <l2tp-tunnel-packet-statistics>
    <control-tx-packets>control-tx-packets</control-tx-packets>
    <control-rx-packets>control-rx-packets</control-rx-packets>
    <data-tx-packets>data-tx-packets</data-tx-packets>
    <data-rx-packets>data-rx-packets</data-rx-packets>
    <discard-tx-packets>discard-tx-packets</discard-tx-packets>
    <discard-rx-packets>discard-rx-packets</discard-rx-packets>
  </l2tp-tunnel-packet-statistics>
</l2tp-tunnel-statistics>
```

Description L2TP tunnel statistics.

Contents <control-rx-packets>—Number of control packets received for this tunnel.

<control-tx-packets>—Number of control packets transmitted for this tunnel.

<data-rx-packets>—Number of data packets received for this tunnel.

<data-tx-packets>—Number of data packets transmitted for this tunnel.

<discard-rx-packets>—Number of received packets that were discarded by this tunnel.

<discard-tx-packets>—Number of (attempted) transmitted packets that were discarded by this tunnel.

<l2tp-tunnel-statistics>

Usage
```
<l2tp-tunnel-statistics-information>
  <l2tp-tunnel-statistics>
    <local-tid>local-tid</local-tid>
    <remote-tid>remote-tid</remote-tid>
    <local-ip>local-ip</local-ip>
    <remote-ip>remote-ip</remote-ip>
    <active-sessions>active-sessions</active-sessions>
    <l2tp-tunnel-packet-statistics>...</l2tp-tunnel-packet-statistics>
  </l2tp-tunnel-statistics>
</l2tp-tunnel-statistics-information>
```

Description L2TP tunnel-statistics for a single tunnel.

Contents <active-sessions>—Number of sessions that are currently active for this tunnel.

<l2tp-tunnel-packet-statistics>—L2TP tunnel statistics.

<local-ip>—Local IP this tunnel is bound to.

<local-tid>—Local tunnel identifier.

<remote-ip>—Remote IP this tunnel is bound to.

<remote-tid>—Remote tunnel identifier.

<l2tp-tunnel-statistics-information>

Usage

```
<rpc-reply>
  <l2tp-tunnel-statistics-information>
    <l2tp-tunnel-statistics>...</l2tp-tunnel-statistics>
  </l2tp-tunnel-statistics-information>
</rpc-reply>
```

Description L2TP tunnel-statistics for the GGSN.

Contents <l2tp-tunnel-statistics>—L2TP tunnel-statistics for a single tunnel.

<logical-apn-statistics>

Usage

```
<logical-apn-statistics-information>
  <logical-apn-statistics>
    <name>name</name>
    <pdp-attempted-activation>pdp-attempted-activation</pdp-attempted-activation>
    <pdp-blocked>pdp-blocked</pdp-blocked>
    <default-apn-selected>default-apn-selected</default-apn-selected>
    <default-apn-invalid>default-apn-invalid</default-apn-invalid>
    <username-based-apn-selected>username-based-apn-selected
                </username-based-apn-selected>
    <username-based-apn-invalid>username-based-apn-invalid
                </username-based-apn-invalid>
  </logical-apn-statistics>
</logical-apn-statistics-information>
```

Description Statistics for a single logical APN.

Contents <default-apn-invalid>—Count of create requests that attempted to use a nonexistent default APN.

<default-apn-selected>—Count of create requests that used the default APN.

<name>—No documentation is available yet.

<pdp-attempted-activation>—Number of attempted PDP activations.

<pdp-blocked>—Number of PDP context creates denied due to administrative block.

<username-based-apn-invalid>—Count of create requests using username-based APN selection that had an nonselectable APN name.

<username-based-apn-selected>—Count of create requests that used username-based APN selection.

<logical-apn-statistics-information>

Usage
```
<rpc-reply>
  <logical-apn-statistics-information>
    <logical-apn-statistics>...</logical-apn-statistics>
  </logical-apn-statistics-information>
</rpc-reply>
```

Description Logical APN statistics for the GGSN.

Contents <logical-apn-statistics>—Statistics for a single logical APN.

<mobile-user>

Usage
```
<mobile-user-information | pdp-context-deletion-results>
  <mobile-user>
    <imsi>imsi</imsi>
    <msisdn>msisdn</msisdn>
    <pdp-context-information>...</pdp-context-information>
  </mobile-user>
</mobile-user-information | pdp-context-deletion-results>
```

Description Information about a mobile user.

Contents <imsi>—International Mobile Subscriber Identity for user.

<msisdn>—Mobile Station Integrated Services Digital Network number for user.

<pdp-context-information>—List of PDP contexts associated with the user.

<mobile-user-information>

Usage
```
<rpc-reply>
  <mobile-user-information>
    <mobile-user>...</mobile-user>
  </mobile-user-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mobile-user>—Information about a mobile user.

<node-action-results>

Usage
```
<rpc-reply>
  <node-action-results>
    <node-action>node-action</node-action>
  </node-action-results>
</rpc-reply>
```

Description Results of a GGSN node action command.

Contents <node-action>—Actions performed on the GGSN node.

<node-alive-request-statistics>

Usage

```
<gtp-prime-statistics>
  <node-alive-request-statistics>
    <request-received>request-received</request-received>
    <request-transmitted>request-transmitted</request-transmitted>
    <response-received>response-received</response-received>
    <response-transmitted>response-transmitted</response-transmitted>
  </node-alive-request-statistics>
</gtp-prime-statistics>
```

Description GTP Prime node alive request statistics.

Contents <request-received>—Requests received.

<request-transmitted>—Requests sent.

<response-received>—Responses received.

<response-transmitted>—Responses sent.

<nsapi-information>

Usage

```
<call-trace>
  <nsapi-information>
    <nsapi>nsapi</nsapi>
  </nsapi-information>
</call-trace>
```

Description List of NSAPIs associated with user.

Contents <nsapi>—Network Service Access Point Identifier for user.

<outgoing>

Usage

```
<signalling>
  <outgoing>
    <packets>packets</packets>
    <bytes>bytes</bytes>
  </outgoing>
</signalling>
```

Description No documentation is available yet.

Contents <bytes>—Count of bytes.

<packets>—Count of packets.

<packet-filter>

Usage
```
<packet-filter-information>
  <packet-filter>
    <evaluation-precedence>evaluation-precedence</evaluation-precedence>
    <source-address>source-address</source-address>
    <source-mask>source-mask</source-mask>
    <source-port-range>source-port-range</source-port-range>
    <destination-port-range>destination-port-range</destination-port-range>
    <diffserv-code-point>diffserv-code-point</diffserv-code-point>
    <flow-label>flow-label</flow-label>
    <spi>spi</spi>
    <protocol>protocol</protocol>
  </packet-filter>
</packet-filter-information>
```

Description No documentation is available yet.

Contents <destination-port-range>—Destination port range.

<diffserv-code-point>—No documentation is available yet.

<evaluation-precedence>—Evaluation precedence for PDP context packets.

<flow-label>—No documentation is available yet.

<protocol>—Protocol for this filter.

<source-address>—No documentation is available yet.

<source-mask>—No documentation is available yet.

<source-port-range>—Source port range.

<spi>—IPSec security parameters index.

<packet-filter-information>

Usage
```
<traffic-flow-template>
  <packet-filter-information>
    <packet-filter>...</packet-filter>
  </packet-filter-information>
</traffic-flow-template>
```

Description Filters for this TFT.

Contents <packet-filter>—No documentation is available yet.

<pdp>

Usage

```
<ggsn-interface>
  <pdp>
    <pdp-state>pdp-state</pdp-state>
    <pdp-assigned>pdp-assigned</pdp-assigned>
    <pdp-capacity>pdp-capacity</pdp-capacity>
  </pdp>
</ggsn-interface>
```

Description PDP context information.

Contents <pdp-assigned>—PDP contexts assigned to a PIC.

<pdp-capacity>—Maximum number of active PDP contexts that a PIC can service.

<pdp-state>—PDP service state for the PIC.

<pdp-context>

Usage

```
<pdp-context-information>
  <pdp-context>
    <nsapi>nsapi</nsapi>
    <nsapi-linked>nsapi-linked</nsapi-linked>
    <apn-name>apn-name</apn-name>
    <sgsn-address>sgsn-address</sgsn-address>
    <address>address</address>
    <charging-identifier>charging-identifier</charging-identifier>
    <quality-of-service>...</quality-of-service>
    <traffic-flow-template-information>...</traffic-flow-template-information>
  </pdp-context>
</pdp-context-information>
```

Description Information relating to an MT/MS PDP context.

Contents <address>—No documentation is available yet.

<apn-name>—APN for this context.

<charging-identifier>—Charging identifier associated with the user.

<nsapi>—Network Service Access Point Identifier for user.

<nsapi-linked>—NSAPI of associated primary context.

<quality-of-service>—PDP context quality-of-service information.

<sgsn-address>—SGSN for this context.

<traffic-flow-template-information>—Traffic flow templates (TFTs).

<pdp-context-deletion-results>

Usage
```
<rpc-reply>
  <pdp-context-deletion-results>
    <mobile-user>...</mobile-user>
  </pdp-context-deletion-results>
</rpc-reply>
```

Description Results for a single PDP context deletion command.

Contents <mobile-user>—Information about a mobile user.

<pdp-context-information>

Usage
```
<mobile-user>
  <pdp-context-information>
    <pdp-context>...</pdp-context>
  </pdp-context-information>
</mobile-user>
```

Description List of PDP contexts associated with the user.

Contents <pdp-context>—Information relating to an MT/MS PDP context.

<pdp-context-statistics>

Usage <ggsn-statistics | interface-pdp-context-statistics | apn-statistics | sgsn-statistics>

<pdp-context-statistics>

<pdp-active>*pdp-active*</pdp-active>
<pdp-active-conversational>*pdp-active-conversational*
</pdp-active-conversational>
<pdp-active-streaming>*pdp-active-streaming*</pdp-active-streaming>
<pdp-active-interactive>*pdp-active-interactive*</pdp-active-interactive>
<pdp-active-background>*pdp-active-background*</pdp-active-background>
<pdp-active-ipv6>*pdp-active-ipv6*</pdp-active-ipv6>
<pdp-active-imsi>*pdp-active-imsi*</pdp-active-imsi>
<pdp-active-msisdn>*pdp-active-msisdn*</pdp-active-msisdn>
<pdp-blocked>*pdp-blocked*</pdp-blocked>
<pdp-apn-by-logical-apn-selection>*pdp-apn-by-logical-apn-selection*
</pdp-apn-by-logical-apn-selection>
<pdp-apn-by-logical-apn-default>*pdp-apn-by-logical-apn-default*
</pdp-apn-by-logical-apn-default>
<pdp-assigned-msisdn>*pdp-assigned-msisdn*</pdp-assigned-msisdn>
<pdp-assigned-shared-msisdn>*pdp-assigned-shared-msisdn*
</pdp-assigned-shared-msisdn>
<pdp-attempted-activation>*pdp-attempted-activation*</pdp-attempted-activation>
<pdp-attempted-activation-ipv6>*pdp-attempted-activation-ipv6*
</pdp-attempted-activation-ipv6>
<pdp-completed-activation>*pdp-completed-activation*</pdp-completed-activation>
<pdp-completed-activation-ipv6>*pdp-completed-activation-ipv6*
</pdp-completed-activation-ipv6>
<pdp-attempted-activation-dhcp>*pdp-attempted-activation-dhcp*
</pdp-attempted-activation-dhcp>
<pdp-completed-activation-dhcp>*pdp-completed-activation-dhcp*
</pdp-completed-activation-dhcp>
<pdp-attempted-activation-radius>*pdp-attempted-activation-radius*
</pdp-attempted-activation-radius>
<pdp-completed-activation-radius>*pdp-completed-activation-radius*
</pdp-completed-activation-radius>
<pdp-attempted-activation-local-pool>*pdp-attempted-activation-local-pool*
</pdp-attempted-activation-local-pool>
<pdp-completed-activation-local-pool>*pdp-completed-activation-local-pool*
</pdp-completed-activation-local-pool>
<pdp-attempted-activation-dynamic>*pdp-attempted-activation-dynamic*
</pdp-attempted-activation-dynamic>
<pdp-completed-activation-dynamic>*pdp-completed-activation-dynamic*
</pdp-completed-activation-dynamic>
<pdp-attempted-mobile-activation>*pdp-attempted-mobile-activation*
</pdp-attempted-mobile-activation>
<pdp-completed-mobile-activation>*pdp-completed-mobile-activation*
</pdp-completed-mobile-activation>
<pdp-attempted-deactivation>*pdp-attempted-deactivation*
</pdp-attempted-deactivation>
<pdp-completed-deactivation>*pdp-completed-deactivation*
</pdp-completed-deactivation>
<pdp-attempted-node-deactivation>*pdp-attempted-node-deactivation*
</pdp-attempted-node-deactivation>
<pdp-completed-node-deactivation>*pdp-completed-node-deactivation*

```
                </pdp-completed-node-deactivation>
<pdp-completed-idle-deactivation>pdp-completed-idle-deactivation
                </pdp-completed-idle-deactivation>
<pdp-completed-session-deactivation>pdp-completed-session-deactivation
                </pdp-completed-session-deactivation>
<pdp-attempted-mobile-deactivation>pdp-attempted-mobile-deactivation
                </pdp-attempted-mobile-deactivation>
<pdp-completed-mobile-deactivation>pdp-completed-mobile-deactivation
                </pdp-completed-mobile-deactivation>
<pdp-attempted-authentication-activation>pdp-attempted-authentication-activation
                </pdp-attempted-authentication-activation>
<pdp-completed-authentication-activation>pdp-completed-authentication-activation
                </pdp-completed-authentication-activation>
<pdp-attempted-mobile-sgsn-update>pdp-attempted-mobile-sgsn-update
                </pdp-attempted-mobile-sgsn-update>
<pdp-completed-mobile-sgsn-update>pdp-completed-mobile-sgsn-update
                </pdp-completed-mobile-sgsn-update>
<pdp-created>pdp-created</pdp-created>
<pdp-created-ipv6>pdp-created-ipv6</pdp-created-ipv6>
<pdp-create-failed>pdp-create-failed</pdp-create-failed>
<pdp-create-failed-ipv6>pdp-create-failed-ipv6</pdp-create-failed-ipv6>
<pdp-secondary-created>pdp-secondary-created</pdp-secondary-created>
<pdp-secondary-created-ipv6>pdp-secondary-created-ipv6
                </pdp-secondary-created-ipv6>
<pdp-secondary-create-failed>pdp-secondary-create-failed
                </pdp-secondary-create-failed>
<pdp-secondary-attempted-ipv6>pdp-secondary-attempted-ipv6
                </pdp-secondary-attempted-ipv6>
<pdp-secondary-completed-ipv6>pdp-secondary-completed-ipv6
                </pdp-secondary-completed-ipv6>
<pdp-last-create>pdp-last-create</pdp-last-create>
<pdp-secondary-create-failed-ipv6>pdp-secondary-create-failed-ipv6
                </pdp-secondary-create-failed-ipv6>
<pdp-updates>pdp-updates</pdp-updates>
<pdp-update-failed>pdp-update-failed</pdp-update-failed>
<pdp-deleted>pdp-deleted</pdp-deleted>
<pdp-deleted-by-idle-supervision>pdp-deleted-by-idle-supervision
                </pdp-deleted-by-idle-supervision>
<pdp-deleted-by-session-supervision>pdp-deleted-by-session-supervision
                </pdp-deleted-by-session-supervision>
<pdp-deleted-by-command>pdp-deleted-by-command</pdp-deleted-by-command>
<pdp-deleted-by-failure>pdp-deleted-by-failure</pdp-deleted-by-failure>
<pdp-delete-failed>pdp-delete-failed</pdp-delete-failed>
<pdp-last-delete>pdp-last-delete</pdp-last-delete>
<pdp-successful-deactivations>pdp-successful-deactivations
                </pdp-successful-deactivations>
<pdp-failed-deactivations>pdp-failed-deactivations</pdp-failed-deactivations>
<pdp-maximum>pdp-maximum</pdp-maximum>
<pdp-minimum>pdp-minimum</pdp-minimum>
<pdp-mean>pdp-mean</pdp-mean>
<pdp-active-l2tp-tunnels>pdp-active-l2tp-tunnels</pdp-active-l2tp-tunnels>
<pdp-active-l2tp-sessions>pdp-active-l2tp-sessions</pdp-active-l2tp-sessions>
<pdp-maximum-active-l2tp-tunnels>pdp-maximum-active-l2tp-tunnels
                </pdp-maximum-active-l2tp-tunnels>
```

```
        <pdp-maximum-active-l2tp-sessions>pdp-maximum-active-l2tp-sessions
                </pdp-maximum-active-l2tp-sessions>
        <ims-dedicated-completed-activation>ims-dedicated-completed-activation
                </ims-dedicated-completed-activation>
        <ims-dedicated-failed-activation>ims-dedicated-failed-activation
                </ims-dedicated-failed-activation>
        <ims-general-completed-activation>ims-general-completed-activation
                </ims-general-completed-activation>
        <ims-general-failed-activation>ims-general-failed-activation
                </ims-general-failed-activation>
        <ims-general-active-failed-activation>ims-general-active-failed-activation
                </ims-general-active-failed-activation>
        <ims-signalling-packets-drops>ims-signalling-packets-drops
                </ims-signalling-packets-drops>
      </pdp-context-statistics>
    </ggsn-statistics | interface-pdp-context-statistics | apn-statistics | sgsn-statistics>
```

Description Information about PDP context events.

Contents <ims-dedicated-completed-activation>—Successful dedicated signaling PDP ctx activations.

<ims-dedicated-failed-activation>—Failed dedicated signaling PDP ctx activations, APN OFF.

<ims-general-active-failed-activation>—Failed general purpose PDP ctx, normal ctx is created.

<ims-general-completed-activation>—Successful general purpose PDP ctx activations.

<ims-general-failed-activation>—Failed general purpose PDP ctx activations, APN OFF.

<ims-signalling-packets-drops>—Dropped unauthorized IMS signaling packets.

<pdp-active>—Number of active PDP contexts.

<pdp-active-background>—Active contexts, traffic class background.

<pdp-active-conversational>—Active contexts, traffic class conversational.

<pdp-active-imsi>—Number of active IMSIs.

<pdp-active-interactive>—Active contexts, traffic class interactive.

<pdp-active-ipv6>—Number of active IPv6 PDP contexts.

<pdp-active-l2tp-sessions>—Number of active L2TP sessions.

<pdp-active-l2tp-tunnels>—Number of active L2TP tunnels.

<pdp-active-msisdn>—Number of active MSISDNs.

<pdp-active-streaming>—Active contexts, traffic class streaming.

<pdp-apn-by-logical-apn-default>—Number of times this APN was the result of a logical APN default selection.

<pdp-apn-by-logical-apn-selection>—Number of times this APN was the result of a logical APN user selection.

<pdp-assigned-msisdn>—Number of assigned MSISDNs.

<pdp-assigned-shared-msisdn>—Number of assigned shared MSISDNs.

<pdp-attempted-activation>—Number of attempted PDP activations.

<pdp-attempted-activation-dhcp>—Number of attempted PDP activations with DHCP address.

<pdp-attempted-activation-dynamic>—Number of attempted PDP activations with dynamic address.

<pdp-attempted-activation-ipv6>—Number of attempted IPv6 PDP activations.

<pdp-attempted-activation-local-pool>—Number of attempted PDP activations with local pool address.

<pdp-attempted-activation-radius>—Number of attempted PDP activations with RADIUS address.

<pdp-attempted-authentication-activation>—Number of PDP context activations attempted with user authentication required.

<pdp-attempted-deactivation>—Number of attempted PDP context deactivations.

<pdp-attempted-mobile-activation>—Number of mobile-station-initiated PDP context activations attempted.

<pdp-attempted-mobile-deactivation>—Number of mobile-station-initiated PDP context deactivations attempted.

<pdp-attempted-mobile-sgsn-update>—Number of mobile station or SGSN initiated PDP context updates attempted.

<pdp-attempted-node-deactivation>—Number of GGSN-initiated PDP context deactivations attempted.

<pdp-blocked>—Number of PDP context creates denied due to administrative block.

<pdp-completed-activation>—Number of successfully completed PDP activations.

<pdp-completed-activation-dhcp>—Number of completed PDP activations with DHCP address.

<pdp-completed-activation-dynamic>—Number of completed PDP activations with dynamic address.

<pdp-completed-activation-ipv6>—Number of successfully completed IPv6 PDP

activations.

<pdp-completed-activation-local-pool>—Number of completed PDP activations with local pool address.

<pdp-completed-activation-radius>—Number of completed PDP activations with RADIUS address.

<pdp-completed-authentication-activation>—Number of PDP context activations completed with user authentication required.

<pdp-completed-deactivation>—Number of completed PDP context deactivations.

<pdp-completed-idle-deactivation>—Number of PDP context deactivations completed due to idle timeout.

<pdp-completed-mobile-activation>—Number of mobile-station-initiated PDP context activations completed.

<pdp-completed-mobile-deactivation>—Number of mobile-station-initiated PDP context deactivations completed.

<pdp-completed-mobile-sgsn-update>—Number of mobile station or SGSN initiated PDP context updates completed.

<pdp-completed-node-deactivation>—Number of GGSN-initiated PDP context deactivations completed.

<pdp-completed-session-deactivation>—Number of PDP context deactivations completed due to session timeout.

<pdp-create-failed>—Total number of PDP context creation failures.

<pdp-create-failed-ipv6>—Total number of IPv6 PDP context creation failures.

<pdp-created>—Total number of PDP contexts successfully created.

<pdp-created-ipv6>—Total number of IPv6 PDP contexts successfully created.

<pdp-delete-failed>—Total number of failed requests for deletion of a PDP context.

<pdp-deleted>—Total number of PDP contexts deleted.

<pdp-deleted-by-command>—PDP delete requests initiated by a node administrator.

<pdp-deleted-by-failure>—PDP deletions due to system or path failure.

<pdp-deleted-by-idle-supervision>—PDP delete requests initiated by the idle supervision function.

<pdp-deleted-by-session-supervision>—PDP delete requests initiated by the session supervision function.

<pdp-failed-deactivations>—Count of failed PDP context deactivations.

<pdp-last-create>—Time when the last PDP context was created.

<pdp-last-delete>—Time when the last PDP context was deleted.

<pdp-maximum>—Maximum PDP contexts for measured period.

<pdp-maximum-active-l2tp-sessions>—Maximum number of active L2TP sessions since restart.

<pdp-maximum-active-l2tp-tunnels>—Maximum number of active L2TP tunnels since restart.

<pdp-mean>—Average number of PDP contexts for measured period.

<pdp-minimum>—Minimum PDP contexts for measured period.

<pdp-secondary-attempted-ipv6>—Total number of attempted IPv6 secondary PDP context activations.

<pdp-secondary-completed-ipv6>—Total number of successful IPv6 secondary PDP context activations.

<pdp-secondary-create-failed>—Total number of secondary PDP context creation failures.

<pdp-secondary-create-failed-ipv6>—Total number of IPv6 secondary PDP context creation failures.

<pdp-secondary-created>—Total number of secondary PDP contexts successfully created.

<pdp-secondary-created-ipv6>—Total number of IPv6 secondary PDP contexts successfully created.

<pdp-successful-deactivations>—Count of successfully deactivated PDP contexts.

<pdp-update-failed>—Total number of failed PDP context updates.

<pdp-updates>—Total number of successful PDP context updates.

<pdp-diagnostics-per-apn>

Usage

```
<rpc-reply>
  <pdp-diagnostics-per-apn>
    <pdp-id>pdp-id</pdp-id>
  </pdp-diagnostics-per-apn>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pdp-id>—PDP id.

<pdp-request-statistics>

Usage

```
<gtp-statistics>
  <pdp-request-statistics>
    <create-request-received>create-request-received</create-request-received>
    <create-response-transmitted>create-response-transmitted
                </create-response-transmitted>
    <update-request-received>update-request-received</update-request-received>
    <update-request-transmitted>update-request-transmitted
                </update-request-transmitted>

<update-response-received>update-response-received</update-response-received>
    <update-response-transmitted>update-response-transmitted
                </update-response-transmitted>
    <delete-request-received>delete-request-received</delete-request-received>
    <delete-request-transmitted>delete-request-transmitted
                </delete-request-transmitted>
    <delete-response-received>delete-response-received</delete-response-received>
    <delete-response-transmitted>delete-response-transmitted
                </delete-response-transmitted>
  </pdp-request-statistics>
</gtp-statistics>
```

Description PDP context request statistics.

Contents <create-request-received>—GTP PDP create requests received.

<create-response-transmitted>—GTP PDP create responses sent.

<delete-request-received>—GTP PDP delete requests received.

<delete-request-transmitted>—GTP PDP delete requests sent.

<delete-response-received>—GTP PDP delete responses received.

<delete-response-transmitted>—GTP PDP delete responses sent.

<update-request-received>—GTP PDP update requests received.

<update-request-transmitted>—GTP PDP update requests sent.

<update-response-received>—GTP PDP update responses received.

<update-response-transmitted>—GTP PDP update responses sent.

<pras-information>

Usage
```
<sbcc-statistics-information>
  <pras-information>
    <pras-statistics>...</pras-statistics>
  </pras-information>
</sbcc-statistics-information>
```

Description Information about policy rating application systems.

Contents <pras-statistics>—Statistics for a policy rating application system.

<pras-statistics>

Usage
```
<pras-information>
  <pras-statistics>
    <pras-identifier>pras-identifier</pras-identifier>
    <pras-start-request>pras-start-request</pras-start-request>
    <pras-start-request-failed>pras-start-request-failed
                </pras-start-request-failed>
    <pras-update-request>pras-update-request</pras-update-request>
    <pras-update-request-failed>pras-update-request-failed
                </pras-update-request-failed>
    <pras-stop-request>pras-stop-request</pras-stop-request>
    <pras-stop-request-failed>pras-stop-request-failed</pras-stop-request-failed>
    <pras-user-service-denied>pras-user-service-denied</pras-user-service-denied>
    <pras-user-unknown>pras-user-unknown</pras-user-unknown>
  </pras-statistics>
</pras-information>
```

Description Statistics for a policy rating application system.

Contents <pras-identifier>—Policy rating application system identifier.

<pras-start-request>—PR-AS start requests.

<pras-start-request-failed>—PR-AS start requests failed.

<pras-stop-request>—PR-AS stop requests.

<pras-stop-request-failed>—PR-AS stop requests failed.

<pras-update-request>—PR-AS update requests.

<pras-update-request-failed>—PR-AS update requests failed.

<pras-user-service-denied>—PR-AS requests failed with user service denied.

<pras-user-unknown>—PR-AS requests failed with user unknown.

<quality-of-service>

Usage
```
<pdp-context>
  <quality-of-service>
    <gi-diffserv-code-point>gi-diffserv-code-point</gi-diffserv-code-point>
    <gn-diffserv-code-point>gn-diffserv-code-point</gn-diffserv-code-point>
    <downlink-bitrate>downlink-bitrate</downlink-bitrate>
  </quality-of-service>
</pdp-context>
```

Description PDP context quality-of-service information.

Contents <downlink-bitrate>—Downlink bit rate.

<gi-diffserv-code-point>—Gi DiffServ class.

<gn-diffserv-code-point>—Gn DiffServ class.

<radius-statistics-information>

Usage
```
<ggsn-statistics | apn-statistics>
  <radius-statistics-information>
    <radius-authentication-failure>radius-authentication-failure
                  </radius-authentication-failure>
    <accounting-failure>accounting-failure</accounting-failure>
  </radius-statistics-information>
</ggsn-statistics | apn-statistics>
```

Description Radius statistics.

Contents <accounting-failure>—Number of failed RADIUS Accounting procedures.

<radius-authentication-failure>—Number of failed RADIUS Authentication procedures.

<rate-group-information>

Usage
```
<sbcc-statistics-information>
  <rate-group-information>
    <rate-group-statistics>...</rate-group-statistics>
  </rate-group-information>
</sbcc-statistics-information>
```

Description Information about a rate group.

Contents <rate-group-statistics>—Statistics for a rate group.

<rate-group-statistics>

Usage
```
<rate-group-information>
  <rate-group-statistics>
    <rate-group-identifier>rate-group-identifier</rate-group-identifier>
    <transactions-start>transactions-start</transactions-start>
    <transactions-success>transactions-success</transactions-success>
  </rate-group-statistics>
</rate-group-information>
```

Description Statistics for a rate group.

Contents <rate-group-identifier>—Rate group identifier.

<transactions-start>—Start transaction events.

<transactions-success>—Successful transaction events.

<redirection-request-statistics>

Usage
```
<gtp-prime-statistics>
  <redirection-request-statistics>
    <request-received>request-received</request-received>
    <request-transmitted>request-transmitted</request-transmitted>
    <response-received>response-received</response-received>
    <response-transmitted>response-transmitted</response-transmitted>
  </redirection-request-statistics>
</gtp-prime-statistics>
```

Description GTP Prime redirection request statistics.

Contents <request-received>—Requests received.

<request-transmitted>—Requests sent.

<response-received>—Responses received.

<response-transmitted>—Responses sent.

<resources>

Usage

```
<ggsn-interface>
  <resources>
    <cpu-info>...</cpu-info>
    <memory-total>memory-total</memory-total>
    <memory-used>memory-used</memory-used>
  </resources>
</ggsn-interface>
```

Description CPU and memory information for a PIC.

Contents <cpu-info>—CPU usage.

<memory-total>—DRAM size (megabytes).

<memory-used>—DRAM used (megabytes).

<rs-statistics>

Usage

```
<rulespace-based-charging-statistics>
  <rs-statistics>
    <rs-identifier>rs-identifier</rs-identifier>
    <uplink-statistics>uplink-statistics</uplink-statistics>
    <downlink-statistics>downlink-statistics</downlink-statistics>
    <service-instances>service-instances</service-instances>
    <discarded-uplink>discarded-uplink</discarded-uplink>
    <discarded-downlink>discarded-downlink</discarded-downlink>
    <gate-discarded-uplink>gate-discarded-uplink</gate-discarded-uplink>
    <gate-discarded-downlink>gate-discarded-downlink</gate-discarded-downlink>
  </rs-statistics>
</rulespace-based-charging-statistics>
```

Description Statistics for a rule space.

Contents <discarded-downlink>—Discarded downlink packets due to authorization based on policy and credit control.

<discarded-uplink>—Discarded uplink packets due to authorization based on policy and credit control.

<downlink-statistics>—Downlink bytes identified per APN and rule space.

<gate-discarded-downlink>—Discarded downlink packets due to closed gate.

<gate-discarded-uplink>—Discarded uplink packets due to closed gate.

<rs-identifier>—Rule space identifier.

<service-instances>—Service instances identified per APN and rule space.

<uplink-statistics>—Uplink bytes identified per APN and rule space.

<rulespace-based-charging-statistics>

Usage
```
<apn-statistics>
  <rulespace-based-charging-statistics>
    <rs-statistics>...</rs-statistics>
  </rulespace-based-charging-statistics>
</apn-statistics>
```

Description Information about rule spaces.

Contents <rs-statistics>—Statistics for a rule space.

<sbcc-statistics-information>

Usage <ggsn-interface | ggsn-statistics | apn-statistics-information>

<sbcc-statistics-information>

<prepaid-request>*prepaid-request*</prepaid-request>
<rating-request>*rating-request*</rating-request>
<prepaid-user>*prepaid-user*</prepaid-user>
<prepaid-context>*prepaid-context*</prepaid-context>
<prepaid-pdp-creates-attempted>*prepaid-pdp-creates-attempted*
</prepaid-pdp-creates-attempted>
<prepaid-pdp-creates-failed>*prepaid-pdp-creates-failed*
</prepaid-pdp-creates-failed>
<pdp-initiated-deactivation>*pdp-initiated-deactivation*
</pdp-initiated-deactivation>
<credit-start-request-attempted>*credit-start-request-attempted*
</credit-start-request-attempted>
<credit-start-request-failed>*credit-start-request-failed*
</credit-start-request-failed>
<rating-initial-request-attempted>*rating-initial-request-attempted*
</rating-initial-request-attempted>
<rating-initial-request-failed>*rating-initial-request-failed*
</rating-initial-request-failed>
<rating-update-request-attempted>*rating-update-request-attempted*
</rating-update-request-attempted>
<rating-update-request-failed>*rating-update-request-failed*
</rating-update-request-failed>
<credit-update-request-attempted>*credit-update-request-attempted*
</credit-update-request-attempted>
<credit-update-request-failed>*credit-update-request-failed*
</credit-update-request-failed>
<credit-stop-request-attempted>*credit-stop-request-attempted*
</credit-stop-request-attempted>
<credit-stop-request-failed>*credit-stop-request-failed*
</credit-stop-request-failed>
<external-prs-update>*external-prs-update*</external-prs-update>
<external-prs-update-no-match>*external-prs-update-no-match*
</external-prs-update-no-match>
<external-credit-update>*external-credit-update*</external-credit-update>
<external-credit-update-no-match>*external-credit-update-no-match*
</external-credit-update-no-match>
<external-update-failed>*external-update-failed*</external-update-failed>
<duration-time>*duration-time*</duration-time>
<activation-bearer-ctrl-accept>*activation-bearer-ctrl-accept*
</activation-bearer-ctrl-accept>
<activation-bearer-ctrl-reject>*activation-bearer-ctrl-reject*
</activation-bearer-ctrl-reject>
<activation-bearer-ctrl-upgrade>*activation-bearer-ctrl-upgrade*
</activation-bearer-ctrl-upgrade>
<activation-bearer-ctrl-downgrade>*activation-bearer-ctrl-downgrade*
</activation-bearer-ctrl-downgrade>
<modification-bearer-ctrl-accept>*modification-bearer-ctrl-accept*
</modification-bearer-ctrl-accept>
<modification-bearer-ctrl-deactivate>*modification-bearer-ctrl-deactivate*
</modification-bearer-ctrl-deactivate>

```
        <modification-bearer-ctrl-upgrade>modification-bearer-ctrl-upgrade
                </modification-bearer-ctrl-upgrade>
        <modification-bearer-ctrl-downgrade>modification-bearer-ctrl-downgrade
                </modification-bearer-ctrl-downgrade>
        <activation-no-bearer-ctrl-accept>activation-no-bearer-ctrl-accept
                </activation-no-bearer-ctrl-accept>
        <activation-no-bearer-ctrl-reject>activation-no-bearer-ctrl-reject
                </activation-no-bearer-ctrl-reject>
        <activation-no-bearer-ctrl-downgrade>activation-no-bearer-ctrl-downgrade
                </activation-no-bearer-ctrl-downgrade>
        <modification-no-bearer-ctrl-accept>modification-no-bearer-ctrl-accept
                </modification-no-bearer-ctrl-accept>
        <modification-no-bearer-ctrl-deactivate>modification-no-bearer-ctrl-deactivate
                </modification-no-bearer-ctrl-deactivate>
        <modification-no-bearer-ctrl-downgrade>modification-no-bearer-ctrl-downgrade
                </modification-no-bearer-ctrl-downgrade>
        <das-information>...</das-information>
        <pras-information>...</pras-information>
        <ccas-information>...</ccas-information>
        <service-class-information>...</service-class-information>
        <service-identifier-information>service-identifier-information
                </service-identifier-information>
        <rate-group-information>...</rate-group-information>
        <authorization-discard-information>...</authorization-discard-information>
      </sbcc-statistics-information>
    </ggsn-interface | ggsn-statistics | apn-statistics-information>
```

Description Service-based charging statistics.

Contents <activation-bearer-ctrl-accept>—QoS accepts at activation, SGSN bearer ctrl.

<activation-bearer-ctrl-downgrade>—QoS downgrades at activation, SGSN bearer ctrl.

<activation-bearer-ctrl-reject>—PDP context rejects at activation, SGSN bearer ctrl.

<activation-bearer-ctrl-upgrade>—QoS upgrades at activation, SGSN bearer ctrl.

<activation-no-bearer-ctrl-accept>—QoS accepts at activation, no SGSN bearer ctrl.

<activation-no-bearer-ctrl-downgrade>—QoS downgrades at activation, no SGSN bearer ctrl.

<activation-no-bearer-ctrl-reject>—PDP context rejects at activation, no SGSN bearer ctrl.

<authorization-discard-information>—No documentation is available yet.

<ccas-information>—Information about credit control application systems.

<credit-start-request-attempted>—Number of credit start requests attempted.

<credit-start-request-failed>—Number of credit start requests failed.

<credit-stop-request-attempted>—Number of credit stop requests attempted.

<credit-stop-request-failed>—Number of credit start requests failed.

<credit-update-request-attempted>—Number of credit update requests attempted.

<credit-update-request-failed>—Number of credit update requests failed.

<das-information>—Information about diameter application systems.

<duration-time>—Seconds measured for duration time.

<external-credit-update>—Number of externally initiated credit updates for users with prepaid service.

<external-credit-update-no-match>—Number of external credit updates for non-existing users or users not using prepaid service.

<external-prs-update>—Number of externally initiated URT updates for users using PRS.

<external-prs-update-no-match>—Number of external URT updates for non-existing users or users not using PRS.

<external-update-failed>—Number of failed external URT/credit updates.

<modification-bearer-ctrl-accept>—QoS accepts at modification, SGSN bearer ctrl.

<modification-bearer-ctrl-deactivate>—PDP ctx deactivates at modification, SGSN bearer ctrl.

<modification-bearer-ctrl-downgrade>—QoS downgrades at modification, SGSN bearer ctrl.

<modification-bearer-ctrl-upgrade>—QoS upgrades at modification, SGSN bearer ctrl.

<modification-no-bearer-ctrl-accept>—QoS accepts at modification, no SGSN bearer ctrl.

<modification-no-bearer-ctrl-deactivate>—PDP ctx deactivates at modification, no SGSN bearer ctrl.

<modification-no-bearer-ctrl-downgrade>—QoS downgrades at modification, no SGSN bearer ctrl.

<pdp-initiated-deactivation>—Number of PDP context deactivations initiated by service-based-charging.

<pras-information>—Information about policy rating application systems.

<prepaid-context>—Number of prepaid contexts.

<prepaid-pdp-creates-attempted>—Number of prepaid PDP context creates attempted.

<prepaid-pdp-creates-failed>—Number of prepaid PDP context create attempts that failed.

<prepaid-request>—Number of application transaction towards prepaid server.

<prepaid-user>—Number of prepaid users.

<rate-group-information>—Information about a rate group.

<rating-initial-request-attempted>—Number of initial rating requests attempted.

<rating-initial-request-failed>—Number of initial rating requests failed.

<rating-request>—Number of application transaction towards policy/rate server.

<rating-update-request-attempted>—Number of attempted rating update requests.

<rating-update-request-failed>—Number of failed rating update requests.

<service-class-information>—Information about a service class.

<service-identifier-information>—No documentation is available yet.

<service-based-charging-for-gx>

Usage

```
<apn-statistics-information>
  <service-based-charging-for-gx>
    <ccr-statistics>...</ccr-statistics>
    <dynamic-charging-rules>dynamic-charging-rules</dynamic-charging-rules>
    <active-predifened-charging-rules>active-predifened-charging-rules
                </active-predifened-charging-rules>
    <active-predifened-charging-rulbases>active-predifened-charging-rulbases
                </active-predifened-charging-rulbases>
  </service-based-charging-for-gx>
</apn-statistics-information>
```

Description Service-base charging statistics for the gx interface.

Contents <active-predifened-charging-rulbases>—Active predefined charging rule bases per APN.

<active-predifened-charging-rules>—Active predefined charging rules per APN.

<ccr-statistics>—Statistics for a credit control application system.

<dynamic-charging-rules>—Simultaneously installed dynamic charging rules.

<service-class-information>

Usage
```
<sbcc-statistics-information>
  <service-class-information>
    <service-class-statistics>...</service-class-statistics>
  </service-class-information>
</sbcc-statistics-information>
```

Description Information about a service class.

Contents <service-class-statistics>—Statistics for a service class.

<service-class-statistics>

Usage
```
<service-class-information>
  <service-class-statistics>
    <service-class-identifier>service-class-identifier</service-class-identifier>
    <uplink-bytes>uplink-bytes</uplink-bytes>
    <downlink-bytes>downlink-bytes</downlink-bytes>
    <active-time>active-time</active-time>
  </service-class-statistics>
</service-class-information>
```

Description Statistics for a service class.

Contents <active-time>—Seconds measured for active time for service class.

<downlink-bytes>—Bytes in the downlink direction.

<service-class-identifier>—Service class identifier.

<uplink-bytes>—Bytes in the uplink direction.

<service-id-information>

Usage
```
<rpc-reply>
  <service-id-information>
    <service-id-statistics>...</service-id-statistics>
  </service-id-information>
</rpc-reply>
```

Description Information about a service ID.

Contents <service-id-statistics>—Statistics for a service ID.

<service-id-statistics>

Usage

```
<service-id-information>
  <service-id-statistics>
    <service-id-identifier>service-id-identifier</service-id-identifier>
    <uplink-bytes>uplink-bytes</uplink-bytes>
    <downlink-bytes>downlink-bytes</downlink-bytes>
    <transactions-charged>transactions-charged</transactions-charged>
    <transactions-failed>transactions-failed</transactions-failed>
    <transactions-start>transactions-start</transactions-start>
    <transactions-success>transactions-success</transactions-success>
  </service-id-statistics>
</service-id-information>
```

Description Statistics for a service ID.

Contents <downlink-bytes>—Bytes in the downlink direction.

<service-id-identifier>—Service ID.

<transactions-charged>—Transactions for which event charging applies.

<transactions-failed>—Failed transactions.

<transactions-start>—Start transaction events.

<transactions-success>—Successful transaction events.

<uplink-bytes>—Bytes in the uplink direction.

<sgsn-statistics>

Usage

```
<sgsn-statistics-information>
  <sgsn-statistics>
    <address>address</address>
    <pdp-context-statistics>...</pdp-context-statistics>
    <uplink>...</uplink>
    <downlink>...</downlink>
    <gtp-error-statistics>...</gtp-error-statistics>
  </sgsn-statistics>
</sgsn-statistics-information>
```

Description Statistics information for an SGSN.

Contents <address>—No documentation is available yet.

<downlink>—Link traffic in the downlink direction.

<gtp-error-statistics>—GTP error statistics.

<pdp-context-statistics>—Information about PDP context events.

<uplink>—Link traffic in the uplink direction.

<sgsn-statistics-information>

Usage
```
<rpc-reply>
  <sgsn-statistics-information>
    <sgsn-statistics>...</sgsn-statistics>
  </sgsn-statistics-information>
</rpc-reply>
```

Description SGSN-level statistics for the GGSN service.

Contents <sgsn-statistics>—Statistics information for an SGSN.

<signalling>

Usage
```
<apn-statistics>
  <signalling>
    <incoming>...</incoming>
    <outgoing>...</outgoing>
  </signalling>
</apn-statistics>
```

Description Signaling traffic.

Contents <incoming>—No documentation is available yet.

<outgoing>—No documentation is available yet.

<software-action-results>

Usage
```
<rpc-reply>
  <software-action-results>
    <software-action-message>software-action-message</software-action-message>
  </software-action-results>
</rpc-reply>
```

Description Results of a GGSN software software command.

Contents <software-action-message>—Software action message.

<tft-statistics>

Usage
```
<ggsn-interface>
  <tft-statistics>
    <maximum-tft-filter-depth>maximum-tft-filter-depth</maximum-tft-filter-depth>
    <mean-tft-filter-depth>mean-tft-filter-depth</mean-tft-filter-depth>
  </tft-statistics>
</ggsn-interface>
```

Description No documentation is available yet.

Contents <maximum-tft-filter-depth>—Maximum TFT filter depth per user in the last period.

<mean-tft-filter-depth>—Mean TFT filter depth per user in the last period.

<traffic-flow-template>

Usage
```
<traffic-flow-template-information>
  <traffic-flow-template>
    <packet-filter-information>...</packet-filter-information>
  </traffic-flow-template>
</traffic-flow-template-information>
```

Description TFT information.

Contents <packet-filter-information>—Filters for this TFT.

<traffic-flow-template-information>

Usage
```
<pdp-context>
  <traffic-flow-template-information>
    <traffic-flow-template>...</traffic-flow-template>
  </traffic-flow-template-information>
</pdp-context>
```

Description Traffic flow templates (TFTs).

Contents <traffic-flow-template>—TFT information.

<uplink>

Usage

```
<ggsn-statistics | apn-statistics | sgsn-statistics>
  <uplink>
    <packets>packets</packets>
    <packets-ipv6>packets-ipv6</packets-ipv6>
    <bytes>bytes</bytes>
    <bytes-ipv6>bytes-ipv6</bytes-ipv6>
    <dropped-packets>dropped-packets</dropped-packets>
    <dropped-packets-ipv6>dropped-packets-ipv6</dropped-packets-ipv6>
    <dropped-bytes>dropped-bytes</dropped-bytes>
    <dropped-bytes-ipv6>dropped-bytes-ipv6</dropped-bytes-ipv6>
  </uplink>
</ggsn-statistics | apn-statistics | sgsn-statistics>
```

Description Link traffic in the uplink direction.

Contents <bytes>—Count of bytes.

<bytes-ipv6>—Count of bytes for IPv6.

<dropped-bytes>—Count of packet dropped bytes.

<dropped-bytes-ipv6>—Count of packet dropped bytes for IPv6.

<dropped-packets>—Count of packet drops.

<dropped-packets-ipv6>—Count of packet drops for IPv6.

<packets>—Count of packets.

<packets-ipv6>—Count of packets for IPv6.

<user-category-line>

Usage

```
<ggsn-pdp-per-user-category>
  <user-category-line>
    <user-category>user-category</user-category>
    <pdp-active>pdp-active</pdp-active>
  </user-category-line>
</ggsn-pdp-per-user-category>
```

Description No documentation is available yet.

Contents <pdp-active>—Number of active PDP contexts.

<user-category>—User category.

<version-unsupported-statistics>

Usage
```
<gtp-statistics | gtp-prime-statistics>
  <version-unsupported-statistics>
    <version-unsupported-received>version-unsupported-received
                </version-unsupported-received>
    <version-unsupported-transmitted>version-unsupported-transmitted
                </version-unsupported-transmitted>
  </version-unsupported-statistics>
</gtp-statistics | gtp-prime-statistics>
```

Description Version unsupported message information.

Contents <version-unsupported-received>—Unsupported version messages received.

<version-unsupported-transmitted>—Unsupported version messages sent.

<weighted-pdp-context-load>

Usage
```
<ggsn-statistics>
  <weighted-pdp-context-load>
    <weighted-pdp-context-load-in-control>weighted-pdp-context-load-in-control
                </weighted-pdp-context-load-in-control>
    <weighted-pdp-context-load-in-payload>weighted-pdp-context-load-in-payload
                </weighted-pdp-context-load-in-payload>
  </weighted-pdp-context-load>
</ggsn-statistics>
```

Description No documentation is available yet.

Contents <weighted-pdp-context-load-in-control>—No documentation is available yet.

<weighted-pdp-context-load-in-payload>—No documentation is available yet.

Summary of LACP Response Tags

This section lists JUNOS XML tags that contain operational information about the Link Aggregation Control Protocol (LACP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-lacpd. To review the DTD for the tags, see "DTD for LACP Response Tags" on page 2269.

<lacp-interface-information>

Usage

```
<lacp-interface-information-list>
  <lacp-interface-information>
    <lag-lacp-header>...</lag-lacp-header>
    <lag-lacp-info>...</lag-lacp-info>
    <lag-lacp-state>...</lag-lacp-state>
    <lag-lacp-protocol>...</lag-lacp-protocol>
  </lacp-interface-information>
</lacp-interface-information-list>
```

Description Information about an aggregated interface.

Contents <lag-lacp-header>—LACP header.

<lag-lacp-info>—LACP information.

<lag-lacp-protocol>—LACP protocol information.

<lag-lacp-state>—LACP protocol state information.

<lacp-interface-information-list>

Usage

```
<rpc-reply>
  <lacp-interface-information-list>
    <lacp-interface-information>...</lacp-interface-information>
  </lacp-interface-information-list>
</rpc-reply>
```

Description Information about one or more aggregated interfaces.

Contents <lacp-interface-information>—Information about an aggregated interface.

<lacp-interface-statistics>

Usage
```
<lacp-interface-statistics-list>
  <lacp-interface-statistics>
    <lag-lacp-header>...</lag-lacp-header>
    <lag-lacp-statistics>...</lag-lacp-statistics>
  </lacp-interface-statistics>
</lacp-interface-statistics-list>
```

Description Statistics for an aggregated interface.

Contents <lag-lacp-header>—LACP header.

<lag-lacp-statistics>—No documentation is available yet.

<lacp-interface-statistics-list>

Usage
```
<rpc-reply>
  <lacp-interface-statistics-list>
    <lacp-interface-statistics>...</lacp-interface-statistics>
  </lacp-interface-statistics-list>
</rpc-reply>
```

Description Information about one or more aggregated interfaces.

Contents <lacp-interface-statistics>—Statistics for an aggregated interface.

<lag-lacp-header>

Usage
```
<lacp-interface-information | lacp-interface-statistics>
  <lag-lacp-header>
    <aggregate-name>aggregate-name</aggregate-name>
  </lag-lacp-header>
</lacp-interface-information | lacp-interface-statistics>
```

Description LACP header.

Contents <aggregate-name>—Aggregated Interface name.

<lag-lacp-info>

Usage

```
<lacp-interface-information>
  <lag-lacp-info>
    <name>name</name>
    <lacp-role>lacp-role</lacp-role>
    <lacp-sys-priority>lacp-sys-priority</lacp-sys-priority>
    <lacp-system-id>lacp-system-id</lacp-system-id>
    <lacp-port-priority>lacp-port-priority</lacp-port-priority>
    <lacp-port-number>lacp-port-number</lacp-port-number>
    <lacp-port-key>lacp-port-key</lacp-port-key>
  </lag-lacp-info>
</lacp-interface-information>
```

Description LACP information.

Contents <lacp-port-key>—Operational key of the port.

<lacp-port-number>—Port number.

<lacp-port-priority>—Priority of the port.

<lacp-role>—Whether it is an actor or partner.

<lacp-sys-priority>—System priority.

<lacp-system-id>—LACP system identifier.

<name>—Interface name.

<lag-lacp-protocol>

Usage

```
<lacp-interface-information>
  <lag-lacp-protocol>
    <name>name</name>
    <lacp-receive-state>lacp-receive-state</lacp-receive-state>
    <lacp-transmit-state>lacp-transmit-state</lacp-transmit-state>
    <lacp-mux-state>lacp-mux-state</lacp-mux-state>
  </lag-lacp-protocol>
</lacp-interface-information>
```

Description LACP protocol information.

Contents <lacp-mux-state>—State of the mux lacp machine.

<lacp-receive-state>—State of the receive lacp machine.

<lacp-transmit-state>—State of the transmit lacp machine.

<name>—Interface name.

<lag-lacp-state>

Usage

```
<lacp-interface-information>
  <lag-lacp-state>
    <name>name</name>
    <lacp-role>lacp-role</lacp-role>
    <lacp-expired>lacp-expired</lacp-expired>
    <lacp-defaulted>lacp-defaulted</lacp-defaulted>
    <lacp-distributing>lacp-distributing</lacp-distributing>
    <lacp-collecting>lacp-collecting</lacp-collecting>
    <lacp-synchronization>lacp-synchronization</lacp-synchronization>
    <lacp-aggregation>lacp-aggregation</lacp-aggregation>
    <lacp-timeout>lacp-timeout</lacp-timeout>
    <lacp-activity>lacp-activity</lacp-activity>
  </lag-lacp-state>
</lacp-interface-information>
```

Description LACP protocol state information.

Contents <lacp-activity>—Configured as either active or passive.

<lacp-aggregation>—Actor view of partner information is in sync.

<lacp-collecting>—State of the mux lacp machine is COLLECTING?.

<lacp-defaulted>—State of the receive lacp machine is DEFAULTED?.

<lacp-distributing>—State of the mux lacp machine is DISTRIBUTING?.

<lacp-expired>—State of the receive lacp machine is EXPIRED?.

<lacp-role>—Whether it is an actor or partner.

<lacp-synchronization>—Actor view of partner information is in sync.

<lacp-timeout>—Configured as either fast or slow periodic.

<name>—Interface name.

<lag-lacp-statistics>

Usage

```
<lacp-interface-statistics>
  <lag-lacp-statistics>
    <name>name</name>
    <lacp-rx-packets>lacp-rx-packets</lacp-rx-packets>
    <lacp-tx-packets>lacp-tx-packets</lacp-tx-packets>
    <unknown-rx-packets>unknown-rx-packets</unknown-rx-packets>
    <illegal-rx-packets>illegal-rx-packets</illegal-rx-packets>
  </lag-lacp-statistics>
</lacp-interface-statistics>
```

Description No documentation is available yet.

Contents <illegal-rx-packets>—Number of ill formed packets received.

<lacp-rx-packets>—Number of LACP packets received.

<lacp-tx-packets>—Number of LACP packets transmitted.

<name>—Interface name.

<unknown-rx-packets>—Number of unknown type packets received.

Summary of Layer 2 Address Learning Response Tags

This section lists JUNOS XML tags that contain operational information about Layer 2 address learning. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-l2al. To review the DTD for the tags, see "DTD for Layer 2 Address Learning Response Tags" on page 2271.

<bridge-statistics-information>

Usage

```
<rpc-reply>
  <bridge-statistics-information>
    <l2ald-rtb-entry>...</l2ald-rtb-entry>
    <interface-statistics>...</interface-statistics>
  </bridge-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-statistics>—No documentation is available yet.

<l2ald-rtb-entry>—No documentation is available yet.

<flood-nh-components>

Usage

```
<flood-route | flood-nh-group>
  <flood-nh-components>
    <interface-name>interface-name</interface-name>
    <interface-type>interface-type</interface-type>
    <nhtype>nhtype</nhtype>
    <nhindex>nhindex</nhindex>
  </flood-nh-components>
</flood-route | flood-nh-group>
```

Description No documentation is available yet.

Contents <interface-name>—Bridging media access control address interface.

<interface-type>—No documentation is available yet.

<nhindex>—No documentation is available yet.

<nhtype>—No documentation is available yet.

<flood-nh-group>

Usage

```
<flood-route>
  <flood-nh-group>
    <flood-nh-group-name>flood-nh-group-name</flood-nh-group-name>
    <flood-nh-group-type>flood-nh-group-type</flood-nh-group-type>
    <nhtype>nhtype</nhtype>
    <nhindex>nhindex</nhindex>
    <flood-group-composite-function>flood-group-composite-function
                </flood-group-composite-function>
    <flood-nh-components>...</flood-nh-components>
    <flood-nh-p2mp-components>...</flood-nh-p2mp-components>
  </flood-nh-group>
</flood-route>
```

Description No documentation is available yet.

Contents <flood-group-composite-function>—No documentation is available yet.

<flood-nh-components>—No documentation is available yet.

<flood-nh-group-name>—No documentation is available yet.

<flood-nh-group-type>—No documentation is available yet.

<flood-nh-p2mp-components>—No documentation is available yet.

<nhindex>—No documentation is available yet.

<nhtype>—No documentation is available yet.

<flood-nh-p2mp-components>

Usage

```
<flood-route | flood-nh-group>
  <flood-nh-p2mp-components>
    <component-nhindex>component-nhindex</component-nhindex>
  </flood-nh-p2mp-components>
</flood-route | flood-nh-group>
```

Description No documentation is available yet.

Contents <component-nhindex>—No documentation is available yet.

<flood-route>

Usage

```
<l2ald-vpls-flood-instance-information | l2ald-vpls-flood-route-information |
l2ald-bridge-domain-flood-instance-information |
l2ald-bridge-domain-flood-route-information>
  <flood-route>
    <route-prefix>route-prefix</route-prefix>
    <route-type>route-type</route-type>
    <owner>owner</owner>
    <route-flood-group-name>route-flood-group-name</route-flood-group-name>
    <route-flood-group-index>route-flood-group-index</route-flood-group-index>
    <nhtype>nhtype</nhtype>
    <nhindex>nhindex</nhindex>
    <flood-nh-p2mp-components>...</flood-nh-p2mp-components>
    <flood-nh-components>...</flood-nh-components>
    <flood-nh-group>...</flood-nh-group>
  </flood-route>
</l2ald-vpls-flood-instance-information | l2ald-vpls-flood-route-information |
l2ald-bridge-domain-flood-instance-information |
l2ald-bridge-domain-flood-route-information>
```

Description No documentation is available yet.

Contents

<flood-nh-components>—No documentation is available yet.

<flood-nh-group>—No documentation is available yet.

<flood-nh-p2mp-components>—No documentation is available yet.

<nhindex>—No documentation is available yet.

<nhtype>—No documentation is available yet.

<owner>—No documentation is available yet.

<route-flood-group-index>—No documentation is available yet.

<route-flood-group-name>—No documentation is available yet.

<route-prefix>—No documentation is available yet.

<route-type>—No documentation is available yet.

<interface>

Usage

```
<interface-statistics>
  <interface>
    <interface-name>interface-name</interface-name>
    <interface-id>interface-id</interface-id>
    <interface-description>interface-description</interface-description>
    <local-interface-index>local-interface-index</local-interface-index>
    <interface-flags>interface-flags</interface-flags>
    <interface-flags-description>interface-flags-description
                </interface-flags-description>
  </interface>
</interface-statistics>
```

Description No documentation is available yet.

Contents <interface-description>—No documentation is available yet.

<interface-flags>—No documentation is available yet.

<interface-flags-description>—No documentation is available yet.

<interface-id>—No documentation is available yet.

<interface-name>—Bridging media access control address interface.

<local-interface-index>—No documentation is available yet.

<interface-statistics>

Usage

```
<bridge-statistics-information>
  <interface-statistics>
    <interface>...</interface>
    <remote-pe>remote-pe</remote-pe>
    <broadcast-packets>broadcast-packets</broadcast-packets>
    <broadcast-bytes>broadcast-bytes</broadcast-bytes>
    <multicast-packets>multicast-packets</multicast-packets>
    <multicast-bytes>multicast-bytes</multicast-bytes>
    <flooded-packets>flooded-packets</flooded-packets>
    <flooded-bytes>flooded-bytes</flooded-bytes>
    <unicast-packets>unicast-packets</unicast-packets>
    <unicast-bytes>unicast-bytes</unicast-bytes>
    <mac-limit>mac-limit</mac-limit>
    <num-mac-count>num-mac-count</num-mac-count>
  </interface-statistics>
</bridge-statistics-information>
```

Description No documentation is available yet.

Contents

<broadcast-bytes>—Broadcast bytes.

<broadcast-packets>—Broadcast packets.

<flooded-bytes>—Flooded bytes.

<flooded-packets>—Flooded packets.

<interface>—No documentation is available yet.

<mac-limit>—Limit of number of addresses learned on interface.

<multicast-bytes>—Multicast bytes.

<multicast-packets>—Multicast packets.

<num-mac-count>—Number of addresses learned on the interface.

<remote-pe>—No documentation is available yet.

<unicast-bytes>—Unicast bytes.

<unicast-packets>—Unicast packets.

<l2ald-bridge-domain-flood-event-info>

Usage

```
<l2ald-bridge-domain-flood-next-event | l2ald-bridge-domain-flood-event-list>
  <l2ald-bridge-domain-flood-event-info>
    <event-name>event-name</event-name>
    <event-type>event-type</event-type>
    <event-owner>event-owner</event-owner>
    <event-op>event-op</event-op>
    <event-error>event-error</event-error>
  </l2ald-bridge-domain-flood-event-info>
</l2ald-bridge-domain-flood-next-event | l2ald-bridge-domain-flood-event-list>
```

Description No documentation is available yet.

Contents <event-error>—No documentation is available yet.

<event-name>—No documentation is available yet.

<event-op>—No documentation is available yet.

<event-owner>—No documentation is available yet.

<event-type>—No documentation is available yet.

<l2ald-bridge-domain-flood-event-list>

Usage

```
<l2ald-bridge-domain-flood-event-queue>
  <l2ald-bridge-domain-flood-event-list>
    <l2ald-bridge-domain-flood-event-info>...
                </l2ald-bridge-domain-flood-event-info>
  </l2ald-bridge-domain-flood-event-list>
</l2ald-bridge-domain-flood-event-queue>
```

Description No documentation is available yet.

Contents <l2ald-bridge-domain-flood-event-info>—No documentation is available yet.

<l2ald-bridge-domain-flood-event-queue>

Usage

```
<rpc-reply>
  <l2ald-bridge-domain-flood-event-queue>
    <l2ald-bridge-domain-flood-next-event>...
                </l2ald-bridge-domain-flood-next-event>
    <l2ald-bridge-domain-flood-event-list>...
                </l2ald-bridge-domain-flood-event-list>
  </l2ald-bridge-domain-flood-event-queue>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-bridge-domain-flood-event-list>—No documentation is available yet.

<l2ald-bridge-domain-flood-next-event>—No documentation is available yet.

<l2ald-bridge-domain-flood-instance>

Usage
```
<rpc-reply>
  <l2ald-bridge-domain-flood-instance>
    <l2ald-bridge-domain-lr-information>...</l2ald-bridge-domain-lr-information>
  </l2ald-bridge-domain-flood-instance>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-bridge-domain-lr-information>—No documentation is available yet.

<l2ald-bridge-domain-flood-instance-information>

Usage
```
<l2ald-bridge-domain-lr-information>
  <l2ald-bridge-domain-flood-instance-information>
    <instance-name>instance-name</instance-name>
    <num-active-ce-iffs>num-active-ce-iffs</num-active-ce-iffs>
    <num-active-ve-iffs>num-active-ve-iffs</num-active-ve-iffs>
    <flood-route>...</flood-route>
  </l2ald-bridge-domain-flood-instance-information>
</l2ald-bridge-domain-lr-information>
```

Description No documentation is available yet.

Contents <flood-route>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<num-active-ce-iffs>—No documentation is available yet.

<num-active-ve-iffs>—No documentation is available yet.

<l2ald-bridge-domain-flood-next-event>

Usage
```
<l2ald-bridge-domain-flood-event-queue>
  <l2ald-bridge-domain-flood-next-event>
    <l2ald-bridge-domain-flood-event-info>...
                    </l2ald-bridge-domain-flood-event-info>
  </l2ald-bridge-domain-flood-next-event>
</l2ald-bridge-domain-flood-event-queue>
```

Description No documentation is available yet.

Contents <l2ald-bridge-domain-flood-event-info>—No documentation is available yet.

<l2ald-bridge-domain-flood-route-information>

Usage

```
<rpc-reply>
  <l2ald-bridge-domain-flood-route-information>
    <flood-route>...</flood-route>
  </l2ald-bridge-domain-flood-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <flood-route>—No documentation is available yet.

<l2ald-bridge-domain-lr-information>

Usage

```
<l2ald-bridge-domain-flood-instance>
  <l2ald-bridge-domain-lr-information>
    <logical-system-info>...</logical-system-info>
    <l2ald-bridge-domain-flood-instance-information>...
                    </l2ald-bridge-domain-flood-instance-information>
  </l2ald-bridge-domain-lr-information>
</l2ald-bridge-domain-flood-instance>
```

Description No documentation is available yet.

Contents <l2ald-bridge-domain-flood-instance-information>—No documentation is available yet.

<logical-system-info>—No documentation is available yet.

<l2ald-bridge-instance-group>

Usage

```
<l2ald-bridge-instance-information>
  <l2ald-bridge-instance-group>
    <l2rtb-name>l2rtb-name</l2rtb-name>
    <l2rtb-bridging-domain>l2rtb-bridging-domain</l2rtb-bridging-domain>
    <l2rtb-instance-description>l2rtb-instance-description
                </l2rtb-instance-description>
    <l2rtb-instance-type>l2rtb-instance-type</l2rtb-instance-type>
    <l2rtb-instance-state>l2rtb-instance-state</l2rtb-instance-state>
    <l2rtb-instance-restart-state>l2rtb-instance-restart-state
                </l2rtb-instance-restart-state>
    <l2rtb-instance-pathse1-timeout>l2rtb-instance-pathse1-timeout
                </l2rtb-instance-pathse1-timeout>
    <l2rtb-interface-name>l2rtb-interface-name</l2rtb-interface-name>
    <l2rtb-macs-learned>l2rtb-macs-learned</l2rtb-macs-learned>
    <l2rtb-instance-flags>l2rtb-instance-flags</l2rtb-instance-flags>
    <l2rtb-bridge-vlan>l2rtb-bridge-vlan</l2rtb-bridge-vlan>
    <l2rtb-brief-summary/>
  </l2ald-bridge-instance-group>
</l2ald-bridge-instance-information>
```

Description No documentation is available yet.

Contents

<l2rtb-bridge-vlan>—No documentation is available yet.

<l2rtb-bridging-domain>—Name of the bridging domain.

<l2rtb-brief-summary>—No documentation is available yet.

<l2rtb-instance-description>—No documentation is available yet.

<l2rtb-instance-flags>—No documentation is available yet.

<l2rtb-instance-pathse1-timeout>—No documentation is available yet.

<l2rtb-instance-restart-state>—No documentation is available yet.

<l2rtb-instance-state>—No documentation is available yet.

<l2rtb-instance-type>—Type of instance (routing instance/bridge domain).

<l2rtb-interface-name>—No documentation is available yet.

<l2rtb-macs-learned>—Number of configured static and dynamic MACs that are learned on this routing instance.

<l2rtb-name>—Name of the routing instance.

<l2ald-bridge-instance-information>

Usage

```
<rpc-reply>
  <l2ald-bridge-instance-information>
    <l2ald-bridge-instance-group>...</l2ald-bridge-instance-group>
  </l2ald-bridge-instance-information>
</rpc-reply>
```

Description Operational bridge instances that can be passed to netapp commands.

Contents <l2ald-bridge-instance-group>—No documentation is available yet.

<l2ald-global-configuration>

Usage

```
<l2ald-process-information>
  <l2ald-global-configuration>
    <l2ald-mac-aging-time>l2ald-mac-aging-time</l2ald-mac-aging-time>
    <l2ald-config-flag>l2ald-config-flag</l2ald-config-flag>
    <l2ald-mac-learning-status>l2ald-mac-learning-status
                </l2ald-mac-learning-status>
    <l2ald-hardware-mac-learning-status>l2ald-hardware-mac-learning-status
                </l2ald-hardware-mac-learning-status>
    <l2ald-software-mac-learning-status>l2ald-software-mac-learning-status
                </l2ald-software-mac-learning-status>
    <l2ald-statistics-status>l2ald-statistics-status</l2ald-statistics-status>
    <l2ald-sequence-number>l2ald-sequence-number</l2ald-sequence-number>
    <l2ald-mac-learn-toggle-count>l2ald-mac-learn-toggle-count
                </l2ald-mac-learn-toggle-count>
    <l2ald-hardware-mac-learn-toggle-count>l2ald-hardware-mac-learn-toggle-count
                </l2ald-hardware-mac-learn-toggle-count>
    <l2ald-software-mac-learn-toggle-count>l2ald-software-mac-learn-toggle-count
                </l2ald-software-mac-learn-toggle-count>
    <l2ald-statistics-toggle-count>l2ald-statistics-toggle-count
                </l2ald-statistics-toggle-count>
    <l2ald-global-mac-limit-count>l2ald-global-mac-limit-count
                </l2ald-global-mac-limit-count>
    <l2ald-global-mac-limit>l2ald-global-mac-limit</l2ald-global-mac-limit>
    <l2ald-global-packet-action-drop>l2ald-global-packet-action-drop
                </l2ald-global-packet-action-drop>
    <l2ald-interface-mac-limit-wm>l2ald-interface-mac-limit-wm
                </l2ald-interface-mac-limit-wm>
    <l2ald-rtb-mac-limit-wm>l2ald-rtb-mac-limit-wm</l2ald-rtb-mac-limit-wm>
    <l2ald-mac-limit-wm>l2ald-mac-limit-wm</l2ald-mac-limit-wm>
    <l2ald-interface-mac-limit-timeout>l2ald-interface-mac-limit-timeout
                </l2ald-interface-mac-limit-timeout>
    <l2ald-rtb-mac-limit-timeout>l2ald-rtb-mac-limit-timeout
                </l2ald-rtb-mac-limit-timeout>
    <l2ald-mac-limit-timeout>l2ald-mac-limit-timeout</l2ald-mac-limit-timeout>
    <l2ald-config-smac-count>l2ald-config-smac-count</l2ald-config-smac-count>
    <l2ald-non-config-smac-count>l2ald-non-config-smac-count
                </l2ald-non-config-smac-count>
  </l2ald-global-configuration>
</l2ald-process-information>
```

Description Global configuration values for the the media access control address learning process.

Contents

<l2ald-config-flag>—Show the global configuration flag value.

<l2ald-config-smac-count>—Number of configured static MACs that are learned globally.

<l2ald-global-mac-limit>—Status of global mac limit (whether reached or not).

<l2ald-global-mac-limit-count>—Count of number of MACs allowed globally in the system.

<l2ald-global-packet-action-drop>—Status of packet action drop (enabled or disabled).

<l2ald-hardware-mac-learn-toggle-count>—Count of status changes for media access control address learning in hardware (between enabled and disabled).

<l2ald-hardware-mac-learning-status>—Status of media access control address learning in hardware (enabled or disabled).

<l2ald-interface-mac-limit-timeout>—Timeout value on Interface MAC limit in seconds.

<l2ald-interface-mac-limit-wm>—Watermark of Inteface MAC limit in percentage.

<l2ald-mac-aging-time>—Configured aging interval for media access control entries.

<l2ald-mac-learn-toggle-count>—Count of status changes for media access control address learning (between enabled and disabled).

<l2ald-mac-learning-status>—Status of media access control address learning (enabled or disabled).

<l2ald-mac-limit-timeout>—Timeout value on Global MAC limit in seconds.

<l2ald-mac-limit-wm>—Watermark of Global MAC limit in percentage.

<l2ald-non-config-smac-count>—Number of non configured static MACs that are learned globally.

<l2ald-rtb-mac-limit-timeout>—Timeout value on Routing instance MAC limit in seconds.

<l2ald-rtb-mac-limit-wm>—Watermark of Routing MAC limit in percentage.

<l2ald-sequence-number>—Count of global sequence number.

<l2ald-software-mac-learn-toggle-count>—Count of status changes for media access control address learning in software (between enabled and disabled).

<l2ald-software-mac-learning-status>—Status of media access control address learning in software (enabled or disabled).

<l2ald-statistics-status>—Status of statistics collection for media access control entries (enabled or disabled).

<l2ald-statistics-toggle-count>—Count of status changes for statistics collection on media access control entries (between enabled and disabled).

<l2ald-global-macdb>

Usage
```
<rpc-reply>
  <l2ald-global-macdb>
    <l2ald-mac-entry>...</l2ald-mac-entry>
  </l2ald-global-macdb>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-mac-entry>—No documentation is available yet.

<l2ald-global-macdb-count>

Usage
```
<rpc-reply>
  <l2ald-global-macdb-count>
    <global-mac-count>global-mac-count</global-mac-count>
  </l2ald-global-macdb-count>
</rpc-reply>
```

Description No documentation is available yet.

Contents <global-mac-count>—Number of global media access control addresses.

<l2ald-if-mac-count-entry>

Usage
```
<l2ald-interface-mac-count>
  <l2ald-if-mac-count-entry>
    <interface-name>interface-name</interface-name>
    <mac-count>mac-count</mac-count>
  </l2ald-if-mac-count-entry>
</l2ald-interface-mac-count>
```

Description MAC Address count for interface.

Contents <interface-name>—Bridging media access control address interface.

<mac-count>—Number of media access control addresses.

<l2ald-interface-mac-count>

Usage
```
<rpc-reply>
  <l2ald-interface-mac-count>
    <l2ald-total-intf-mac-count>l2ald-total-intf-mac-count
                </l2ald-total-intf-mac-count>
    <l2ald-if-mac-count-entry>...</l2ald-if-mac-count-entry>
  </l2ald-interface-mac-count>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-if-mac-count-entry>—MAC Address count for interface.

<l2ald-total-intf-mac-count>—Total MAC address count for all interfaces.

<l2ald-interface-macdb>

Usage

```
<rpc-reply>
  <l2ald-interface-macdb>
    <l2ald-macdb-if-name>l2ald-macdb-if-name</l2ald-macdb-if-name>
    <l2ald-mac-entry>...</l2ald-mac-entry>
  </l2ald-interface-macdb>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-mac-entry>—No documentation is available yet.

<l2ald-macdb-if-name>—Bridging MAC database for an interface.

<l2ald-mac-destination-address-statistics>

Usage

```
<l2ald-mac-entry>
  <l2ald-mac-destination-address-statistics>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </l2ald-mac-destination-address-statistics>
</l2ald-mac-entry>
```

Description MAC destination address statistics.

Contents <byte-count>—Byte count.

<packet-count>—Packet count.

<l2ald-mac-entry>

Usage

```
<l2ald-global-macdb | l2ald-interface-macdb | l2ald-rtb-macdb>
  <l2ald-mac-entry>
    <l2-mac-address>l2-mac-address</l2-mac-address>
    <l2-mac-interface-device>l2-mac-interface-device</l2-mac-interface-device>
    <l2-mac-logical-interface>l2-mac-logical-interface</l2-mac-logical-interface>
    <l2-mac-routing-instance>l2-mac-routing-instance</l2-mac-routing-instance>
    <l2-mac-bridging-domain>l2-mac-bridging-domain</l2-mac-bridging-domain>
    <l2-mac-logical-system>l2-mac-logical-system</l2-mac-logical-system>
    <l2-mac-vlan>l2-mac-vlan</l2-mac-vlan>
    <l2-mac-stp-index>l2-mac-stp-index</l2-mac-stp-index>
    <l2-mac-epoch>l2-mac-epoch</l2-mac-epoch>
    <l2-mac-ifl-generation>l2-mac-ifl-generation</l2-mac-ifl-generation>
    <l2-mac-sequence-number>l2-mac-sequence-number</l2-mac-sequence-number>
    <l2-mac-learn-mask>l2-mac-learn-mask</l2-mac-learn-mask>
    <l2-mac-entry-flags>l2-mac-entry-flags</l2-mac-entry-flags>
    <l2-mac-flags>l2-mac-flags</l2-mac-flags>
    <l2-bridge-vlan>l2-bridge-vlan</l2-bridge-vlan>
    <l2ald-mac-source-address-statistics>...</l2ald-mac-source-address-statistics>
    <l2ald-mac-destination-address-statistics>...
                </l2ald-mac-destination-address-statistics>
  </l2ald-mac-entry>
</l2ald-global-macdb | l2ald-interface-macdb | l2ald-rtb-macdb>
```

Description No documentation is available yet.

Contents

<l2-bridge-vlan>—Vlan for the bridging domain.

<l2-mac-address>—Media access control address learned from another source.

<l2-mac-bridging-domain>—Bridging domain in which the MAC address was learned.

<l2-mac-entry-flags>—Forwarding entry flags associated with these MAC addresses.

<l2-mac-epoch>—Spanning Tree Protocol (STP) epoch number when MAC address was learned.

<l2-mac-flags>—Forwarding entry flags associated with MACs displayed in short form.

<l2-mac-ifl-generation>—Creation time of the logical interface when this MAC address was learned.

<l2-mac-interface-device>—Name of interface device on which MAC address was learned.

<l2-mac-learn-mask>—Mask of Packet Forwarding Engines where this MAC address was learned.

<l2-mac-logical-interface>—Name of logical interface on which MAC address was learned.

<l2-mac-logical-system>—Name of logical system in which this MAC address was learned.

<l2-mac-routing-instance>—Routing instance in which the MAC address was learned.

<l2-mac-sequence-number>—Sequence number assigned to this MAC address.

<l2-mac-stp-index>—Spanning Tree Protocol (STP) index of the logical interface in which the MAC address was learned.

<l2-mac-vlan>—VLAN ID of the routing instance in which the MAC address was learned.

<l2ald-mac-destination-address-statistics>—MAC destination address statistics.

<l2ald-mac-source-address-statistics>—MAC source address statistics.

<l2ald-mac-source-address-statistics>

Usage

```
<l2ald-mac-entry>
  <l2ald-mac-source-address-statistics>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </l2ald-mac-source-address-statistics>
</l2ald-mac-entry>
```

Description MAC source address statistics.

Contents <byte-count>—Byte count.

<packet-count>—Packet count.

<l2ald-perf-counters>

Usage

```
<rpc-reply>
  <l2ald-perf-counters>
    <perf-desc>perf-desc</perf-desc>
    <perf-count>perf-count</perf-count>
    <perf-start-time-sec>perf-start-time-sec</perf-start-time-sec>
    <perf-start-time-usec>perf-start-time-usec</perf-start-time-usec>
    <perf-end-time-sec>perf-end-time-sec</perf-end-time-sec>
    <perf-end-time-usec>perf-end-time-usec</perf-end-time-usec>
    <perf-diff-time-sec>perf-diff-time-sec</perf-diff-time-sec>
    <perf-diff-time-usec>perf-diff-time-usec</perf-diff-time-usec>
  </l2ald-perf-counters>
</rpc-reply>
```

Description Show L2 address learning performance information.

Contents <perf-count>—Performance counter.

<perf-desc>—Performance counter description.

<perf-diff-time-sec>—Performance time difference (seconds hand).

<perf-diff-time-usec>—Performance time difference (microseconds hand).

<perf-end-time-sec>—Performance end time in seconds from Jan 1, 1970.

<perf-end-time-usec>—Performance end time in MicroSeconds from Jan 1, 1970.

<perf-start-time-sec>—Performance start time in seconds from Jan 1, 1970.

<perf-start-time-usec>—Performance start time in MicroSeconds from Jan 1, 1970.

<l2ald-rtb-entry>

Usage

```
<l2ald-routing-table-information | bridge-statistics-information>
  <l2ald-rtb-entry>
    <l2rtb-name>l2rtb-name</l2rtb-name>
    <l2rtb-bridging-domain>l2rtb-bridging-domain</l2rtb-bridging-domain>
    <l2rtb-id>l2rtb-id</l2rtb-id>
    <l2bd-id>l2bd-id</l2bd-id>
    <l2rtb-l2irb-ifl-index>l2rtb-l2irb-ifl-index</l2rtb-l2irb-ifl-index>
    <l2bd-vlan-id>l2bd-vlan-id</l2bd-vlan-id>
    <l2rtb-logical-system>l2rtb-logical-system</l2rtb-logical-system>
    <l2rtb-sequence-number>l2rtb-sequence-number</l2rtb-sequence-number>
    <l2rtb-mac-limit>l2rtb-mac-limit</l2rtb-mac-limit>
    <l2rtb-macs-learned>l2rtb-macs-learned</l2rtb-macs-learned>
    <l2rtb-config-smacs-learned>l2rtb-config-smacs-learned
            </l2rtb-config-smacs-learned>
    <l2rtb-non-config-smacs-learned>l2rtb-non-config-smacs-learned
            </l2rtb-non-config-smacs-learned>
    <l2rtb-flags>l2rtb-flags</l2rtb-flags>
    <l2rtb-irb-interface>l2rtb-irb-interface</l2rtb-irb-interface>
    <l2rtb-irb-interface-index>l2rtb-irb-interface-index
            </l2rtb-irb-interface-index>
    <l2rtb-handle>l2rtb-handle</l2rtb-handle>
    <l2rtb-config-bd-vlan>l2rtb-config-bd-vlan</l2rtb-config-bd-vlan>
    <l2rtb-config-operation>l2rtb-config-operation</l2rtb-config-operation>
    <l2rtb-config-flags>l2rtb-config-flags</l2rtb-config-flags>
    <l2rtb-config-params>l2rtb-config-params</l2rtb-config-params>
    <l2rtb-instance-type>l2rtb-instance-type</l2rtb-instance-type>
    <l2rtb-config-smac-count>l2rtb-config-smac-count</l2rtb-config-smac-count>
    <l2rtb-rtsock-write-errors>l2rtb-rtsock-write-errors
            </l2rtb-rtsock-write-errors>
  </l2ald-rtb-entry>
</l2ald-routing-table-information | bridge-statistics-information>
```

Description No documentation is available yet.

Contents <l2bd-id>—Bridge domain identifier.

<l2bd-vlan-id>—Bridge domain VLAN.

<l2rtb-bridging-domain>—Name of the bridging domain.

<l2rtb-config-bd-vlan>—Vlan configured for the givn bridge domain on routing instance.

<l2rtb-config-flags>—Configured flags associated with this routing instance/bridge domain.

<l2rtb-config-operation>—Configuration notify operation on bridge domain/routing instance.

<l2rtb-config-params>—Configured attributes associated with this routing instance/bridge domain.

<l2rtb-config-smac-count>—Configured Static MAC on the BD.

<l2rtb-config-smacs-learned>—Number of configured static MACs that are learned on this routing instance.

<l2rtb-flags>—Attributes associated with this routing instance.

<l2rtb-handle>—Handle associated with this routing instance.

<l2rtb-id>—Routing instance identifier.

<l2rtb-instance-type>—Type of instance (routing instance/bridge domain).

<l2rtb-irb-interface>—Name of the IRB interface associated with this routing instance.

<l2rtb-irb-interface-index>—IRB interface index associated with this routing instance.

<l2rtb-l2irb-ifl-index>—No documentation is available yet.

<l2rtb-logical-system>—Logical system name.

<l2rtb-mac-limit>—Maximum number of MAC addresses that can be learned on this routing instance.

<l2rtb-macs-learned>—Number of configured static and dynamic MACs that are learned on this routing instance.

<l2rtb-name>—Name of the routing instance.

<l2rtb-non-config-smacs-learned>—Number of non configured static MACs that are learned on this routing instance.

<l2rtb-rtsock-write-errors>—Number of times kernel write has failed.

<l2rtb-sequence-number>—Current routing instance sequence number.

<l2ald-rtb-if-mac-count>

Usage
```
<l2ald-rtb-mac-count-entry>
  <l2ald-rtb-if-mac-count>
    <l2ald-rtb-if-mac-count-entry>...</l2ald-rtb-if-mac-count-entry>
  </l2ald-rtb-if-mac-count>
</l2ald-rtb-mac-count-entry>
```

Description MAC address count for all the interfaces in the routing instance.

Contents <l2ald-rtb-if-mac-count-entry>—No documentation is available yet.

<l2ald-rtb-if-mac-count-entry>

Usage
```
<l2ald-rtb-if-mac-count>
  <l2ald-rtb-if-mac-count-entry>
    <interface-name>interface-name</interface-name>
    <mac-count>mac-count</mac-count>
  </l2ald-rtb-if-mac-count-entry>
</l2ald-rtb-if-mac-count>
```

Description No documentation is available yet.

Contents <interface-name>—Bridging media access control address interface.

<mac-count>—Number of media access control addresses.

<l2ald-rtb-learn-vlan-mac-count>

Usage
```
<l2ald-rtb-mac-count-entry>
  <l2ald-rtb-learn-vlan-mac-count>
    <l2ald-rtb-learn-vlan-mac-count-entry>...
                    </l2ald-rtb-learn-vlan-mac-count-entry>
  </l2ald-rtb-learn-vlan-mac-count>
</l2ald-rtb-mac-count-entry>
```

Description MAC address count for all the learn vlans within the routing instance.

Contents <l2ald-rtb-learn-vlan-mac-count-entry>—No documentation is available yet.

<l2ald-rtb-learn-vlan-mac-count-entry>

Usage
```
<l2ald-rtb-learn-vlan-mac-count>
  <l2ald-rtb-learn-vlan-mac-count-entry>
    <learn-vlan>learn-vlan</learn-vlan>
    <mac-count>mac-count</mac-count>
  </l2ald-rtb-learn-vlan-mac-count-entry>
</l2ald-rtb-learn-vlan-mac-count>
```

Description No documentation is available yet.

Contents <learn-vlan>—VLAN ID of the routing instance in which the MAC address was learned.

<mac-count>—Number of media access control addresses.

<l2ald-rtb-mac-count>

Usage
```
<rpc-reply>
  <l2ald-rtb-mac-count>
    <l2ald-rtb-mac-count-entry>...</l2ald-rtb-mac-count-entry>
  </l2ald-rtb-mac-count>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-rtb-mac-count-entry>—No documentation is available yet.

<l2ald-rtb-mac-count-entry>

Usage
```
<l2ald-rtb-mac-count>
  <l2ald-rtb-mac-count-entry>
    <rtb-name>rtb-name</rtb-name>
    <bd-name>bd-name</bd-name>
    <rtb-mac-count>rtb-mac-count</rtb-mac-count>
    <l2ald-rtb-if-mac-count>...</l2ald-rtb-if-mac-count>
    <l2ald-rtb-learn-vlan-mac-count>...</l2ald-rtb-learn-vlan-mac-count>
  </l2ald-rtb-mac-count-entry>
</l2ald-rtb-mac-count>
```

Description No documentation is available yet.

Contents <bd-name>—Bridging media access control address count for bridge-domain.

<l2ald-rtb-if-mac-count>—MAC address count for all the interfaces in the routing instance.

<l2ald-rtb-learn-vlan-mac-count>—MAC address count for all the learn vlans within the routing instance.

<rtb-mac-count>—Media access control addresses count.

<rtb-name>—Bridging media access control address count for routing-instance.

<l2ald-rtb-mac-learn-count>

Usage
```
<rpc-reply>
  <l2ald-rtb-mac-learn-count>
    <l2ald-rtb-mac-learn-address>l2ald-rtb-mac-learn-address
                </l2ald-rtb-mac-learn-address>
    <l2ald-rtb-mac-learn-num-times>l2ald-rtb-mac-learn-num-times
                </l2ald-rtb-mac-learn-num-times>
  </l2ald-rtb-mac-learn-count>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-rtb-mac-learn-address>—Bridging media access control address.

<l2ald-rtb-mac-learn-num-times>—Number of times an entry has been learned.

<l2ald-rtb-macdb>

Usage

```
<rpc-reply>
  <l2ald-rtb-macdb>
    <l2ald-macdb-rtb-name>l2ald-macdb-rtb-name</l2ald-macdb-rtb-name>
    <l2ald-mac-entry>...</l2ald-mac-entry>
  </l2ald-rtb-macdb>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-mac-entry>—No documentation is available yet.

<l2ald-macdb-rtb-name>—Bridging MAC database for a routing instance.

<l2ald-vpls-flood-event-info>

Usage

```
<l2ald-vpls-flood-next-event | l2ald-vpls-flood-event-list>
  <l2ald-vpls-flood-event-info>
    <event-name>event-name</event-name>
    <event-type>event-type</event-type>
    <event-owner>event-owner</event-owner>
    <event-op>event-op</event-op>
    <event-error>event-error</event-error>
  </l2ald-vpls-flood-event-info>
</l2ald-vpls-flood-next-event | l2ald-vpls-flood-event-list>
```

Description No documentation is available yet.

Contents <event-error>—No documentation is available yet.

<event-name>—No documentation is available yet.

<event-op>—No documentation is available yet.

<event-owner>—No documentation is available yet.

<event-type>—No documentation is available yet.

<l2ald-vpls-flood-event-list>

Usage

```
<l2ald-vpls-flood-event-queue>
  <l2ald-vpls-flood-event-list>
    <l2ald-vpls-flood-event-info>...</l2ald-vpls-flood-event-info>
  </l2ald-vpls-flood-event-list>
</l2ald-vpls-flood-event-queue>
```

Description No documentation is available yet.

Contents <l2ald-vpls-flood-event-info>—No documentation is available yet.

<l2ald-vpls-flood-event-queue>

Usage
```
<rpc-reply>
  <l2ald-vpls-flood-event-queue>
    <l2ald-vpls-flood-next-event>...</l2ald-vpls-flood-next-event>
    <l2ald-vpls-flood-event-list>...</l2ald-vpls-flood-event-list>
  </l2ald-vpls-flood-event-queue>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-vpls-flood-event-list>—No documentation is available yet.

<l2ald-vpls-flood-next-event>—No documentation is available yet.

<l2ald-vpls-flood-instance>

Usage
```
<rpc-reply>
  <l2ald-vpls-flood-instance>
    <l2ald-vpls-lr-information>...</l2ald-vpls-lr-information>
  </l2ald-vpls-flood-instance>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2ald-vpls-lr-information>—No documentation is available yet.

<l2ald-vpls-flood-instance-information>

Usage
```
<l2ald-vpls-lr-information>
  <l2ald-vpls-flood-instance-information>
    <instance-name>instance-name</instance-name>
    <num-active-ce-iffs>num-active-ce-iffs</num-active-ce-iffs>
    <num-active-ve-iffs>num-active-ve-iffs</num-active-ve-iffs>
    <bridge-domain-name>bridge-domain-name</bridge-domain-name>
    <flood-route>...</flood-route>
  </l2ald-vpls-flood-instance-information>
</l2ald-vpls-lr-information>
```

Description No documentation is available yet.

Contents <bridge-domain-name>—Name of the bridging domain.

<flood-route>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<num-active-ce-iffs>—No documentation is available yet.

<num-active-ve-iffs>—No documentation is available yet.

<l2ald-vpls-flood-next-event>

Usage
```
<l2ald-vpls-flood-event-queue>
  <l2ald-vpls-flood-next-event>
    <l2ald-vpls-flood-event-info>...</l2ald-vpls-flood-event-info>
  </l2ald-vpls-flood-next-event>
</l2ald-vpls-flood-event-queue>
```

Description No documentation is available yet.

Contents <l2ald-vpls-flood-event-info>—No documentation is available yet.

<l2ald-vpls-flood-route-information>

Usage
```
<rpc-reply>
  <l2ald-vpls-flood-route-information>
    <flood-route>...</flood-route>
  </l2ald-vpls-flood-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <flood-route>—No documentation is available yet.

<l2ald-vpls-lr-information>

Usage
```
<l2ald-vpls-flood-instance>
  <l2ald-vpls-lr-information>
    <logical-system-info>...</logical-system-info>
    <l2ald-vpls-flood-instance-information>...
                    </l2ald-vpls-flood-instance-information>
  </l2ald-vpls-lr-information>
</l2ald-vpls-flood-instance>
```

Description No documentation is available yet.

Contents <l2ald-vpls-flood-instance-information>—No documentation is available yet.

<logical-system-info>—No documentation is available yet.

<logical-system-info>

Usage
```
<l2ald-vpls-lr-information | l2ald-bridge-domain-lr-information>
  <logical-system-info>
    <logical-system-name>logical-system-name</logical-system-name>
  </logical-system-info>
</l2ald-vpls-lr-information | l2ald-bridge-domain-lr-information>
```

Description No documentation is available yet.

Contents <logical-system-name>—No documentation is available yet.

Summary of Layer 2 Control Protocol Response Tags

This section lists JUNOS XML tags that contain operational information about the Layer 2 Control Protocol (L2CP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-l2cp. To review the DTD for the tags, see "DTD for Layer 2 Control Protocol Response Tags" on page 2279.

<cist-bridge-parameters>

Usage

```
<stp-bridge>
  <cist-bridge-parameters>
    <cist-id>cist-id</cist-id>
    <root-bridge>...</root-bridge>
    <root-port>root-port</root-port>
    <root-cost>root-cost</root-cost>
    <regional-root-bridge>...</regional-root-bridge>
    <internal-root-cost>internal-root-cost</internal-root-cost>
    <hello-time-learned>hello-time-learned</hello-time-learned>
    <max-age-learned>max-age-learned</max-age-learned>
    <forward-delay-learned>forward-delay-learned</forward-delay-learned>
    <msg-age>msg-age</msg-age>
    <hop-count>hop-count</hop-count>
    <time-since-last-tc>time-since-last-tc</time-since-last-tc>
    <topology-change-count>topology-change-count</topology-change-count>
    <extended-system-id>extended-system-id</extended-system-id>
    <this-bridge>...</this-bridge>
    <hello-time-configured>hello-time-configured</hello-time-configured>
    <max-age-configured>max-age-configured</max-age-configured>
    <forward-delay-configured>forward-delay-configured</forward-delay-configured>
    <max-hop-count-configured>max-hop-count-configured</max-hop-count-configured>
    <path-cost-method>path-cost-method</path-cost-method>
  </cist-bridge-parameters>
</stp-bridge>
```

Description STP bridge parameters for Common and Internal Spanning Tree.

Contents <cist-id>—CIST identifier.

<extended-system-id>—Extended system identifier.

<forward-delay-configured>—Forward delay configured on this bridge.

<forward-delay-learned>—Forward delay.

<hello-time-configured>—Hello time configured on this bridge.

<hello-time-learned>—Hello time.

<hop-count>—Hop count received from the root bridge.

<internal-root-cost>—CIST internal root cost.

<max-age-configured>—Maximum age configured on this bridge.

<max-age-learned>—Maximum age for received BPDUs.

<max-hop-count-configured>—Maximum hop count configured on this bridge.

<msg-age>—Age of the received BPDU.

<path-cost-method>—Type of path cost method currently in use.

<regional-root-bridge>—CIST regional root bridge identifier.

<root-bridge>—Root bridge identifier.

<root-cost>—Root cost.

<root-port>—Root port.

<this-bridge>—ID of bridge.

<time-since-last-tc>—Time since last topology change.

<topology-change-count>—Number of topology changes.

<dot1x-authentication-failed-users>

Usage

```
<dot1x-interface-information>
  <dot1x-authentication-failed-users>
    <authentication-failed-interface>authentication-failed-interface
                </authentication-failed-interface>
    <authentication-failed-mac-addr>authentication-failed-mac-addr
                </authentication-failed-mac-addr>
    <authentication-failed-user>authentication-failed-user
                </authentication-failed-user>
  </dot1x-authentication-failed-users>
</dot1x-interface-information>
```

Description List of users who failed authentication.

Contents <authentication-failed-interface>—Interface used in failed authentication.

<authentication-failed-mac-addr>—MAC address used by user who failed authentication.

<authentication-failed-user>—Users who failed authentication.

<dot1x-interface-information>

Usage

```
<rpc-reply>
  <dot1x-interface-information>
    <interface>...</interface>
    <dot1x-static-mac-address>...</dot1x-static-mac-address>
    <dot1x-authentication-failed-users>...</dot1x-authentication-failed-users>
  </dot1x-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dot1x-authentication-failed-users>—List of users who failed authentication.

<dot1x-static-mac-address>—Information about configured static MAC addresses.

<interface>—No documentation is available yet.

<dot1x-static-mac-address>

Usage

```
<dot1x-interface-information>
  <dot1x-static-mac-address>
    <static-mac-address>static-mac-address</static-mac-address>
    <static-mac-vlan-assignment>static-mac-vlan-assignment
                </static-mac-vlan-assignment>
    <static-mac-interface>static-mac-interface</static-mac-interface>
  </dot1x-static-mac-address>
</dot1x-interface-information>
```

Description Information about configured static MAC addresses.

Contents <static-mac-address>—MAC address configured for bypass.

<static-mac-interface>—Interface on which client MAC was learned.

<static-mac-vlan-assignment>—VLAN assigned to the client with this MAC address.

<erp-interface-entry>

Usage

```
<erp-interfaces>
  <erp-interface-entry>
    <erp-interface-name>erp-interface-name</erp-interface-name>
    <control-channel-name>control-channel-name</control-channel-name>
    <forward-state>forward-state</forward-state>
    <rpl-end>rpl-end</rpl-end>
    <sf-flag>sf-flag</sf-flag>
    <interface-state>interface-state</interface-state>
  </erp-interface-entry>
</erp-interfaces>
```

Description Information about Ethernet Ring port of a Ethernet Ring Protection group.

Contents <control-channel-name>—Name of logical interface of ring port control channel.

<erp-interface-name>—Name of ring port physical interface.

<forward-state>—Forward state.

<interface-state>—Control interface state.

<rpl-end>—Ring potection link end flag.

<sf-flag>—Signal failure flag of the ring port.

<erp-interface-information>

Usage
```
<rpc-reply>
  <erp-interface-information>
    <ethernet-ring-pg>...</ethernet-ring-pg>
  </erp-interface-information>
</rpc-reply>
```

Description Information about ring ports for one or more ethernet ring protection groups.

Contents <ethernet-ring-pg>—No documentation is available yet.

<erp-interfaces>

Usage
```
<ethernet-ring-pg>
  <erp-interfaces>
    <erp-interface-entry>...</erp-interface-entry>
  </erp-interfaces>
</ethernet-ring-pg>
```

Description Information about ring ports.

Contents <erp-interface-entry>—Information about Ethernet Ring port of a Ethernet Ring Protection group.

<erp-raps>

Usage
```
<erp-raps-information>
  <erp-raps>
    <erp-raps-entry>...</erp-raps-entry>
  </erp-raps>
</erp-raps-information>
```

Description No documentation is available yet.

Contents <erp-raps-entry>—Information about Ethernet Ring Automatic Protection Switching state machine of a protection group.

<erp-raps-entry>

Usage

```
<erp-raps>
  <erp-raps-entry>
    <protection-group-name>protection-group-name</protection-group-name>
    <aps-state>aps-state</aps-state>
    <aps-event>aps-event</aps-event>
    <rpl-owner>rpl-owner</rpl-owner>
    <wtr-timer>wtr-timer</wtr-timer>
    <guard-timer>guard-timer</guard-timer>
    <operation-state>operation-state</operation-state>
  </erp-raps-entry>
</erp-raps>
```

Description Information about Ethernet Ring Automatic Protection Switching state machine of a protection group.

Contents <aps-event>—Current Automatic Protection Switching event.

<aps-state>—Automatic Protection Switching state.

<guard-timer>—Guard timer state.

<operation-state>—Operation state.

<protection-group-name>—Name of protection group.

<rpl-owner>—Ring protection link owner flag.

<wtr-timer>—Wait to restore timer state.

<erp-raps-information>

Usage

```
<rpc-reply>
  <erp-raps-information>
    <erp-raps>...</erp-raps>
  </erp-raps-information>
</rpc-reply>
```

Description Information about RAPS state machine of one or more ethernet rings.

Contents <erp-raps>—No documentation is available yet.

<erp-rpdu-entry>

Usage
```
<erp-rpdus>
  <erp-rpdu-entry>
    <protection-group-name>protection-group-name</protection-group-name>
    <request-state>request-state</request-state>
    <dnf-flag>dnf-flag</dnf-flag>
    <rb-flag>rb-flag</rb-flag>
    <originator>originator</originator>
    <remote-node-id>remote-node-id</remote-node-id>
  </erp-rpdu-entry>
</erp-rpdus>
```

Description Information about Ethernet Ring RAPS PDU of a Ethernet Ring Protection group.

Contents <dnf-flag>—Do not flush bit in the status field of RAPS PDU.

<originator>—This node is the origination of RAPS PDU.

<protection-group-name>—Name of protection group.

<rb-flag>—Ring protection link blocking bit in the status field of RAPS PDU.

<remote-node-id>—Media access control address of bridge.

<request-state>—Request/State of RAPS PDU.

<erp-rpdu-information>

Usage
```
<rpc-reply>
  <erp-rpdu-information>
    <erp-rpdus>...</erp-rpdus>
  </erp-rpdu-information>
</rpc-reply>
```

Description Information about one or more ethernet rings.

Contents <erp-rpdus>—No documentation is available yet.

<erp-rpdus>

Usage
```
<erp-rpdu-information>
  <erp-rpdus>
    <erp-rpdu-entry>...</erp-rpdu-entry>
  </erp-rpdus>
</erp-rpdu-information>
```

Description No documentation is available yet.

Contents <erp-rpdu-entry>—Information about Ethernet Ring RAPS PDU of a Ethernet Ring Protection group.

<ethernet-ring-pg>

Usage

```
<erp-interface-information>
  <ethernet-ring-pg>
    <erp-protection-group-name>erp-protection-group-name
                    </erp-protection-group-name>
    <erp-interfaces>...</erp-interfaces>
  </ethernet-ring-pg>
</erp-interface-information>
```

Description No documentation is available yet.

Contents <erp-interfaces>—Information about ring ports.

<erp-protection-group-name>—Ethernet ring PG name.

<ethernet-ring-statistics>

Usage

```
<rpc-reply>
  <ethernet-ring-statistics>
    <protection-group-name>protection-group-name</protection-group-name>
    <raps-event-sent>raps-event-sent</raps-event-sent>
    <raps-event-received>raps-event-received</raps-event-received>
    <raps-local-sf>raps-local-sf</raps-local-sf>
    <raps-remote-sf>raps-remote-sf</raps-remote-sf>
    <raps-nr>raps-nr</raps-nr>
    <raps-nr-rb>raps-nr-rb</raps-nr-rb>
  </ethernet-ring-statistics>
</rpc-reply>
```

Description Ethernet Ring protection group statistics.

Contents <protection-group-name>—Name of protection group.

<raps-event-received>—Total number of RAPS PDUs received.

<raps-event-sent>—Total number of RAPS PDU sent out.

<raps-local-sf>—Total number of Local SF event happened.

<raps-nr>—Total number of NR event happened.

<raps-nr-rb>—Total number of NR-RB event happened.

<raps-remote-sf>—Total number of Remote SF event happened.

<interface>

Usage

```
<dot1x-interface-information>
  <interface>
    <user-name>user-name</user-name>
    <user-mac-address>user-mac-address</user-mac-address>
    <role>role</role>
    <state>state</state>
    <administrative-state>administrative-state</administrative-state>
    <administrative-mode>administrative-mode</administrative-mode>
    <number-of-retries>number-of-retries</number-of-retries>
    <quiet-period>quiet-period</quiet-period>
    <transmit-period>transmit-period</transmit-period>
    <reauthentication>reauthentication</reauthentication>
    <reauthentication-interval>reauthentication-interval
                </reauthentication-interval>
    <supplicant-timeout>supplicant-timeout</supplicant-timeout>
    <server-timeout>server-timeout</server-timeout>
    <max-eapol-request>max-eapol-request</max-eapol-request>
    <frame-control>frame-control</frame-control>
    <guest-vlan>guest-vlan</guest-vlan>

<number-of-authentication-bypassed-clients>number-of-authentication-bypassed-clients
                </number-of-authentication-bypassed-clients>
    <static-mac-bypass>static-mac-bypass</static-mac-bypass>
    <number-of-connected-supplicants>number-of-connected-supplicants
                </number-of-connected-supplicants>
    <reauthentication-due>reauthentication-due</reauthentication-due>
  </interface>
</dot1x-interface-information>
```

Description No documentation is available yet.

Contents

<administrative-mode>—Supplicant authorization mode.

<administrative-state>—Administrative state of port.

<frame-control>—Block only ingress traffic before authentication.

<guest-vlan>—VLAN members for unauthenticated or non-responsive hosts.

<max-eapol-request>—Maximum number of EAPOL request IDs to client.

<number-of-authentication-bypassed-clients>—Number of clients bypassed because of authentication.

<number-of-connected-supplicants>—Number of connected supplicants.

<number-of-retries>—Number of retries after which port is placed into wait state.

<quiet-period>—Time to wait after authentication failure.

<reauthentication>—Reauthentication status.

<reauthentication-due>—How long before reauthenticating supplicant.

<reauthentication-interval>—Reauthentication interval.

<role>—Role of interface.

<server-timeout>—Time to wait before invoking server-fail action.

<state>—Current state of interface.

<static-mac-bypass>—MAC address of bypassed client.

<supplicant-timeout>—Time to wait for response from supplicant before resending request.

<transmit-period>—Interval before retransmitting initial EAPOL PDUs.

<user-mac-address>—MAC address of client.

<user-name>—User name as sent by client for authentication.

<l2pt-interface-entry>

Usage

```
<l2pt-interface-list>
  <l2pt-interface-entry>
    <protocols>protocols</protocols>
  </l2pt-interface-entry>
</l2pt-interface-list>
```

Description No documentation is available yet.

Contents <protocols>—Protocols for which tunelling is enabled.

<l2pt-interface-list>

Usage

```
<rpc-reply>
  <l2pt-interface-list>
    <l2pt-interface-entry>...</l2pt-interface-entry>
  </l2pt-interface-list>
</rpc-reply>
```

Description L2PT interface infomration.

Contents <l2pt-interface-entry>—No documentation is available yet.

<msti-bridge-parameters>

Usage

```
<stp-bridge>
  <msti-bridge-parameters>
    <msti-id>msti-id</msti-id>
    <msti-regional-root-bridge>...</msti-regional-root-bridge>
    <root-port>root-port</root-port>
    <root-cost>root-cost</root-cost>
    <hello-time-learned>hello-time-learned</hello-time-learned>
    <max-age-learned>max-age-learned</max-age-learned>
    <forward-delay-learned>forward-delay-learned</forward-delay-learned>
    <max-hop-count-configured>max-hop-count-configured</max-hop-count-configured>
    <hop-count>hop-count</hop-count>
    <time-since-last-tc>time-since-last-tc</time-since-last-tc>
    <topology-change-count>topology-change-count</topology-change-count>
    <extended-system-id>extended-system-id</extended-system-id>
    <this-bridge>...</this-bridge>
    <hello-time-configured>hello-time-configured</hello-time-configured>
    <max-age-configured>max-age-configured</max-age-configured>
    <forward-delay-configured>forward-delay-configured</forward-delay-configured>
    <path-cost-method>path-cost-method</path-cost-method>
  </msti-bridge-parameters>
</stp-bridge>
```

Description STP bridge parameters for Multiple Spanning Tree instances.

Contents <extended-system-id>—Extended system identifier.

<forward-delay-configured>—Forward delay configured on this bridge.

<forward-delay-learned>—Forward delay.

<hello-time-configured>—Hello time configured on this bridge.

<hello-time-learned>—Hello time.

<hop-count>—Hop count received from the root bridge.

<max-age-configured>—Maximum age configured on this bridge.

<max-age-learned>—Maximum age for received BPDUs.

<max-hop-count-configured>—Maximum hop count configured on this bridge.

<msti-id>—MSTI ID.

<msti-regional-root-bridge>—MSTI regional root identifier.

<path-cost-method>—Type of path cost method currently in use.

<root-cost>—Root cost.

<root-port>—Root port.

<this-bridge>—ID of bridge.

<time-since-last-tc>—Time since last topology change.

<topology-change-count>—Number of topology changes.

<msti-regional-root-bridge>

Usage

```
<msti-bridge-parameters>
  <msti-regional-root-bridge>
    <bridge-priority>bridge-priority</bridge-priority>
    <bridge-mac>bridge-mac</bridge-mac>
  </msti-regional-root-bridge>
</msti-bridge-parameters>
```

Description MSTI regional root identifier.

Contents <bridge-mac>—Media access control address of bridge.

<bridge-priority>—Bridge priority.

<mstp-configuration>

Usage

```
<rpc-reply>
  <mstp-configuration>
    <mstp-name>mstp-name</mstp-name>
    <mstp-revision>mstp-revision</mstp-revision>
    <mstp-configuration-digest>mstp-configuration-digest
                </mstp-configuration-digest>
    <vlan-map>...</vlan-map>
  </mstp-configuration>
</rpc-reply>
```

Description Information about Multiple Spanning Tree protocol configuration.

Contents <mstp-configuration-digest>—MSTP configuration digest.

<mstp-name>—MSTP region name.

<mstp-revision>—MSTP revision.

<vlan-map>—No documentation is available yet.

<regional-root-bridge>

Usage
```
<cist-bridge-parameters>
  <regional-root-bridge>
    <bridge-priority>bridge-priority</bridge-priority>
    <bridge-mac>bridge-mac</bridge-mac>
  </regional-root-bridge>
</cist-bridge-parameters>
```

Description CIST regional root bridge identifier.

Contents <bridge-mac>—Media access control address of bridge.

<bridge-priority>—Bridge priority.

<root-bridge>

Usage
```
<cist-bridge-parameters | vst-bridge-parameters>
  <root-bridge>
    <bridge-priority>bridge-priority</bridge-priority>
    <bridge-mac>bridge-mac</bridge-mac>
  </root-bridge>
</cist-bridge-parameters | vst-bridge-parameters>
```

Description Root bridge identifier.

Contents <bridge-mac>—Media access control address of bridge.

<bridge-priority>—Bridge priority.

<stp-bridge>

Usage

```
<rpc-reply>
  <stp-bridge>
    <routing-instance-name>routing-instance-name</routing-instance-name>
    <bpdu-destination-mac-address>bpdu-destination-mac-address
                </bpdu-destination-mac-address>
    <protocol>protocol</protocol>
    <cist-bridge-parameters>...</cist-bridge-parameters>
    <msti-bridge-parameters>...</msti-bridge-parameters>
    <vst-bridge-parameters>...</vst-bridge-parameters>
  </stp-bridge>
</rpc-reply>
```

Description Information about STP bridge parameters.

Contents <bpdu-destination-mac-address>—Destination MAC address in the spanning tree BPDUs.

<cist-bridge-parameters>—STP bridge parameters for Common and Internal Spanning Tree.

<msti-bridge-parameters>—STP bridge parameters for Multiple Spanning Tree instances.

<protocol>—Enabled protocol.

<routing-instance-name>—Routing instance name.

<vst-bridge-parameters>—STP bridge parameters for VLAN Spanning Tree.

<stp-context-statistics-information>

Usage

```
<rpc-reply>
  <stp-context-statistics-information>
    <message-type>message-type</message-type>
    <total-bpdus-sent>total-bpdus-sent</total-bpdus-sent>
    <total-bpdus-received>total-bpdus-received</total-bpdus-received>
    <bpdus-sent-5seconds>bpdus-sent-5seconds</bpdus-sent-5seconds>
    <bpdus-received-5seconds>bpdus-received-5seconds</bpdus-received-5seconds>
    <vstp-statistics>...</vstp-statistics>
  </stp-context-statistics-information>
</rpc-reply>
```

Description Spanning Tree Protocol statistics at routing instance level.

Contents <bpdus-received-5seconds>—Total number of BPDUs received on this routing instance in last 5 secs.

<bpdus-sent-5seconds>—Total number of BPDUs sent out for this routing instance in last 5 secs.

<message-type>—Spanning Tree message type.

<total-bpdus-received>—Total number of BPDUs received.

<total-bpdus-sent>—Total number of BPDUs sent out.

<vstp-statistics>—VLAN Spanning Tree Protocol statistics.

<stp-instance>

Usage

```
<stp-interface-information>
  <stp-instance>
    <stp-interfaces>...</stp-interfaces>
  </stp-instance>
</stp-interface-information>
```

Description No documentation is available yet.

Contents <stp-interfaces>—Information about one or more Spanning Tree Protocol interfaces.

<stp-interface-entry>

Usage

```
<stp-interfaces>
  <stp-interface-entry>
    <port-priority>port-priority</port-priority>
    <designated-port-priority>designated-port-priority</designated-port-priority>
    <designated-port-number>designated-port-number</designated-port-number>
    <port-cost>port-cost</port-cost>
    <port-state>port-state</port-state>
    <designated-bridge-priority>designated-bridge-priority
                    </designated-bridge-priority>
    <designated-bridge-mac>designated-bridge-mac</designated-bridge-mac>
    <port-role>port-role</port-role>
    <link-type>link-type</link-type>
    <port-migrated-protocol>port-migrated-protocol</port-migrated-protocol>
    <boundary-port>boundary-port</boundary-port>
  </stp-interface-entry>
</stp-interfaces>
```

Description Information about Spanning Tree Protocol interface.

Contents <boundary-port>—STP boundary port.

<designated-bridge-mac>—Media access control address of bridge.

<designated-bridge-priority>—Bridge priority.

<designated-port-number>—Designated port number.

<designated-port-priority>—Designated port priority.

<link-type>—Type of link.

<port-cost>—Port cost.

<port-migrated-protocol>—Migrated protocol for port.

<port-priority>—Port priority.

<port-role>—Role of port.

<port-state>—Port state.

<stp-interface-information>

Usage

```
<rpc-reply>
  <stp-interface-information>
    <stp-instance>...</stp-instance>
  </stp-interface-information>
</rpc-reply>
```

Description Information about one or more Spanning Tree Protocol interfaces for one or more Spanning Tree Protocol instances.

Contents <stp-instance>—No documentation is available yet.

<stp-interface-statistics>

Usage
```
<rpc-reply>
  <stp-interface-statistics>
    <stp-interface-statistics-entry>...</stp-interface-statistics-entry>
    <vstp-interface-statistics>...</vstp-interface-statistics>
  </stp-interface-statistics>
</rpc-reply>
```

Description Statistics information about one or more STP interfaces.

Contents <stp-interface-statistics-entry>—Spanning Tree Protocol interface statistics.

<vstp-interface-statistics>—Statistics information about one or more VLAN STP interfaces.

<stp-interface-statistics-entry>

Usage
```
<stp-interface-statistics | vstp-interface-statistics>
  <stp-interface-statistics-entry>
    <total-bpdus-sent>total-bpdus-sent</total-bpdus-sent>
    <total-bpdus-received>total-bpdus-received</total-bpdus-received>
    <next-bpdu-time>next-bpdu-time</next-bpdu-time>
  </stp-interface-statistics-entry>
</stp-interface-statistics | vstp-interface-statistics>
```

Description Spanning Tree Protocol interface statistics.

Contents <next-bpdu-time>—Next bpdu send time in the steady state in seconds.

<total-bpdus-received>—Total number of BPDUs received.

<total-bpdus-sent>—Total number of BPDUs sent out.

<stp-interfaces>

Usage
```
<stp-instance>
  <stp-interfaces>
    <stp-interface-entry>...</stp-interface-entry>
  </stp-interfaces>
</stp-instance>
```

Description Information about one or more Spanning Tree Protocol interfaces.

Contents <stp-interface-entry>—Information about Spanning Tree Protocol interface.

<stp-kernel-table>

Usage

```
<rpc-reply>
  <stp-kernel-table>
    <stp-kernel-table-entry>...</stp-kernel-table-entry>
  </stp-kernel-table>
</rpc-reply>
```

Description Information about Spanning Tree Protocol kernel table.

Contents <stp-kernel-table-entry>—No documentation is available yet.

<stp-kernel-table-entry>

Usage

```
<stp-kernel-table>
  <stp-kernel-table-entry>
    <stp-index>stp-index</stp-index>
    <kernel-if-name>kernel-if-name</kernel-if-name>
    <kernel-stp-instance>kernel-stp-instance</kernel-stp-instance>
    <kernel-state>kernel-state</kernel-state>
    <kernel-action>kernel-action</kernel-action>
    <epoch>epoch</epoch>
    <hardware-learning>hardware-learning</hardware-learning>
  </stp-kernel-table-entry>
</stp-kernel-table>
```

Description No documentation is available yet.

Contents <epoch>—No documentation is available yet.

<hardware-learning>—No documentation is available yet.

<kernel-action>—No documentation is available yet.

<kernel-if-name>—No documentation is available yet.

<kernel-state>—No documentation is available yet.

<kernel-stp-instance>—No documentation is available yet.

<stp-index>—No documentation is available yet.

<task>

Usage

```
<task-information | task-timer-information>
  <task>
    <task-name>task-name</task-name>
    <task-no-information/>
    <task-timer>...</task-timer>
  </task>
</task-information | task-timer-information>
```

Description No documentation is available yet.

Contents <task-name>—Name of this task.

<task-no-information>—No information is available for this task.

<task-timer>—No documentation is available yet.

<task-block>

Usage

```
<task-block-list>
  <task-block>
    <tb-name>tb-name</tb-name>
    <tb-size>tb-size</tb-size>
    <tb-alloc-size>tb-alloc-size</tb-alloc-size>
    <tb-terse-transient/>
    <tb-terse-fullpage/>
    <tb-terse-debug/>
    <tb-alloc-blocks>tb-alloc-blocks</tb-alloc-blocks>
    <tb-alloc-bytes>tb-alloc-bytes</tb-alloc-bytes>
    <tb-max-alloc-blocks>tb-max-alloc-blocks</tb-max-alloc-blocks>
    <tb-max-alloc-bytes>tb-max-alloc-bytes</tb-max-alloc-bytes>
  </task-block>
</task-block-list>
```

Description No documentation is available yet.

Contents <tb-alloc-blocks>—Number of allocated structures.

<tb-alloc-bytes>—Number of allocated bytes.

<tb-alloc-size>—Allocated size for this block.

<tb-max-alloc-blocks>—Maximum number of structures ever allocated.

<tb-max-alloc-bytes>—Maximum number of bytes ever allocated.

<tb-name>—Name for this block.

<tb-size>—Actual size of this block.

<tb-terse-debug>—No documentation is available yet.

<tb-terse-fullpage>—No documentation is available yet.

<tb-terse-transient>—No documentation is available yet.

<task-block-list>

Usage

```
<task-memory-allocator-report>
  <task-block-list>
    <task-block>...</task-block>
  </task-block-list>
</task-memory-allocator-report>
```

Description No documentation is available yet.

Contents <task-block>—No documentation is available yet.

<task-information>

Usage
```
<rpc-reply>
  <task-information>
    <task>...</task>
  </task-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <task>—No documentation is available yet.

<task-lite-page>

Usage
```
<task-lite-page-list>
  <task-lite-page>
    <tlp-name>tlp-name</tlp-name>
    <tlp-alloc-pages>tlp-alloc-pages</tlp-alloc-pages>
    <tlp-alloc-bytes>tlp-alloc-bytes</tlp-alloc-bytes>
    <tlp-max-alloc-pages>tlp-max-alloc-pages</tlp-max-alloc-pages>
    <tlp-max-alloc-bytes>tlp-max-alloc-bytes</tlp-max-alloc-bytes>
  </task-lite-page>
</task-lite-page-list>
```

Description No documentation is available yet.

Contents <tlp-alloc-bytes>—Number of bytes allocated.

<tlp-alloc-pages>—Number of pages allocated.

<tlp-max-alloc-bytes>—Maximum bytes ever allocated.

<tlp-max-alloc-pages>—Maximum pages ever allocated.

<tlp-name>—Name of this pool.

<task-lite-page-list>

Usage
```
<task-memory-allocator-report>
  <task-lite-page-list>
    <task-lite-page>...</task-lite-page>
  </task-lite-page-list>
</task-memory-allocator-report>
```

Description No documentation is available yet.

Contents <task-lite-page>—No documentation is available yet.

<task-malloc>

Usage

```
<task-malloc-list>
  <task-malloc>
    <tm-name>tm-name</tm-name>
    <tm-allocs>tm-allocs</tm-allocs>
    <tm-alloc-bytes>tm-alloc-bytes</tm-alloc-bytes>
    <tm-max-allocs>tm-max-allocs</tm-max-allocs>
    <tm-max-alloc-bytes>tm-max-alloc-bytes</tm-max-alloc-bytes>
    <tm-function-calls>tm-function-calls</tm-function-calls>
  </task-malloc>
</task-malloc-list>
```

Description No documentation is available yet.

Contents <tm-alloc-bytes>—Number of bytes allocated.

<tm-allocs>—Number of allocations out.

<tm-function-calls>—Number of function calls.

<tm-max-alloc-bytes>—Maximum bytes allocated.

<tm-max-allocs>—Maximum allocations ever out.

<tm-name>—No documentation is available yet.

<task-malloc-list>

Usage

```
<task-memory-malloc-usage-report>
  <task-malloc-list>
    <task-malloc>...</task-malloc>
  </task-malloc-list>
</task-memory-malloc-usage-report>
```

Description No documentation is available yet.

Contents <task-malloc>—No documentation is available yet.

<task-memory-allocator-report>

Usage

```
<task-memory-information>
  <task-memory-allocator-report>
    <task-block-list>...</task-block-list>
    <task-lite-page-list>...</task-lite-page-list>
    <task-memory-total-bytes>task-memory-total-bytes</task-memory-total-bytes>
    <task-memory-total-max-bytes>task-memory-total-max-bytes
                </task-memory-total-max-bytes>
  </task-memory-allocator-report>
</task-memory-information>
```

Description No documentation is available yet.

Contents <task-block-list>—No documentation is available yet.

<task-lite-page-list>—No documentation is available yet.

<task-memory-total-bytes>—No documentation is available yet.

<task-memory-total-max-bytes>—No documentation is available yet.

<task-memory-information>

Usage

```
<rpc-reply>
  <task-memory-information>
    <task-memory-in-use-size>task-memory-in-use-size</task-memory-in-use-size>
    <task-memory-in-use-avail>task-memory-in-use-avail</task-memory-in-use-avail>
    <task-memory-max-size>task-memory-max-size</task-memory-max-size>
    <task-memory-max-avail>task-memory-max-avail</task-memory-max-avail>
    <task-memory-max-when>task-memory-max-when</task-memory-max-when>
    <task-memory-free-size>task-memory-free-size</task-memory-free-size>
    <task-memory-overall-report>...</task-memory-overall-report>
    <task-memory-allocator-report>...</task-memory-allocator-report>
    <task-memory-malloc-usage-report>...</task-memory-malloc-usage-report>
    <task-memory-dynamic-allocs>task-memory-dynamic-allocs
            </task-memory-dynamic-allocs>
    <task-memory-max-dynamic-allocs>task-memory-max-dynamic-allocs
            </task-memory-max-dynamic-allocs>
    <task-memory-bss-bytes>task-memory-bss-bytes</task-memory-bss-bytes>
    <task-memory-max-bss-bytes>task-memory-max-bss-bytes
            </task-memory-max-bss-bytes>
    <task-memory-page-data-bytes>task-memory-page-data-bytes
            </task-memory-page-data-bytes>
    <task-memory-max-page-data-bytes>task-memory-max-page-data-bytes
            </task-memory-max-page-data-bytes>
    <task-memory-dir-bytes>task-memory-dir-bytes</task-memory-dir-bytes>
    <task-memory-max-dir-bytes>task-memory-max-dir-bytes
            </task-memory-max-dir-bytes>
    <task-memory-total-bytes-in-use>task-memory-total-bytes-in-use
            </task-memory-total-bytes-in-use>
    <task-memory-total-bytes-percent>task-memory-total-bytes-percent
            </task-memory-total-bytes-percent>
  </task-memory-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<task-memory-allocator-report>—No documentation is available yet.

<task-memory-bss-bytes>—No documentation is available yet.

<task-memory-dir-bytes>—No documentation is available yet.

<task-memory-dynamic-allocs>—No documentation is available yet.

<task-memory-free-size>—No documentation is available yet.

<task-memory-in-use-avail>—No documentation is available yet.

<task-memory-in-use-size>—No documentation is available yet.

<task-memory-malloc-usage-report>—No documentation is available yet.

<task-memory-max-avail>—No documentation is available yet.

<task-memory-max-bss-bytes>—No documentation is available yet.

<task-memory-max-dir-bytes>—No documentation is available yet.

<task-memory-max-dynamic-allocs>—No documentation is available yet.

<task-memory-max-page-data-bytes>—No documentation is available yet.

<task-memory-max-size>—No documentation is available yet.

<task-memory-max-when>—No documentation is available yet.

<task-memory-overall-report>—No documentation is available yet.

<task-memory-page-data-bytes>—No documentation is available yet.

<task-memory-total-bytes-in-use>—No documentation is available yet.

<task-memory-total-bytes-percent>—No documentation is available yet.

<task-memory-malloc-usage-report>

Usage

```
<task-memory-information>
  <task-memory-malloc-usage-report>
    <task-malloc-list>...</task-malloc-list>
    <task-memory-total-bytes>task-memory-total-bytes</task-memory-total-bytes>
    <task-memory-total-max-bytes>task-memory-total-max-bytes
                </task-memory-total-max-bytes>
  </task-memory-malloc-usage-report>
</task-memory-information>
```

Description No documentation is available yet.

Contents <task-malloc-list>—No documentation is available yet.

<task-memory-total-bytes>—No documentation is available yet.

<task-memory-total-max-bytes>—No documentation is available yet.

<task-memory-overall-report>

Usage

```
<task-memory-information>
  <task-memory-overall-report>
    <task-size-block-list>...</task-size-block-list>
    <task-memory-stats-list>...</task-memory-stats-list>
    <task-memory-total-bytes>task-memory-total-bytes</task-memory-total-bytes>
    <task-memory-total-max-bytes>task-memory-total-max-bytes
                </task-memory-total-max-bytes>
    <task-memory-total-free-bytes>task-memory-total-free-bytes
                </task-memory-total-free-bytes>
  </task-memory-overall-report>
</task-memory-information>
```

Description No documentation is available yet.

Contents <task-memory-stats-list>—No documentation is available yet.

<task-memory-total-bytes>—No documentation is available yet.

<task-memory-total-free-bytes>—No documentation is available yet.

<task-memory-total-max-bytes>—No documentation is available yet.

<task-size-block-list>—No documentation is available yet.

<task-memory-stats>

Usage

```
<task-memory-stats-list>
  <task-memory-stats>
    <tms-name>tms-name</tms-name>
    <tms-allocs>tms-allocs</tms-allocs>
    <tms-mallocs>tms-mallocs</tms-mallocs>
    <tms-alloc-bytes>tms-alloc-bytes</tms-alloc-bytes>
    <tms-max-allocs>tms-max-allocs</tms-max-allocs>
    <tms-max-bytes>tms-max-bytes</tms-max-bytes>
    <tms-free-bytes>tms-free-bytes</tms-free-bytes>
  </task-memory-stats>
</task-memory-stats-list>
```

Description No documentation is available yet.

Contents <tms-alloc-bytes>—Number of bytes now allocated.

<tms-allocs>—Number of items allocated.

<tms-free-bytes>—No documentation is available yet.

<tms-mallocs>—Number of items allocated using malloc.

<tms-max-allocs>—Maximum items ever allocated.

<tms-max-bytes>—Maximum bytes ever allocated.

<tms-name>—No documentation is available yet.

<task-memory-stats-list>

Usage
```
<task-memory-overall-report>
  <task-memory-stats-list>
    <task-memory-stats>...</task-memory-stats>
  </task-memory-stats-list>
</task-memory-overall-report>
```

Description No documentation is available yet.

Contents <task-memory-stats>—No documentation is available yet.

<task-replication-state>

Usage
```
<rpc-reply>
  <task-replication-state>
    <task-gres-state>task-gres-state</task-gres-state>
    <task-re-mode>task-re-mode</task-re-mode>
    <task-protocol-replication-state>task-protocol-replication-state
                </task-protocol-replication-state>
    <task-protocol-replication-name>task-protocol-replication-name
                </task-protocol-replication-name>
  </task-replication-state>
</rpc-reply>
```

Description Current state of task replication.

Contents <task-gres-state>—Current state of graceful Routing Engine Switchover.

<task-protocol-replication-name>—No documentation is available yet.

<task-protocol-replication-state>—No documentation is available yet.

<task-re-mode>—Current mastership state of Routing Engine.

<task-size-block>

Usage

```
<task-size-block-list>
  <task-size-block>
    <tsb-size>tsb-size</tsb-size>
    <tsb-terse-transient/>
    <tsb-terse-fullpage/>
    <tsb-allocs>tsb-allocs</tsb-allocs>
    <tsb-mallocs>tsb-mallocs</tsb-mallocs>
    <tsb-alloc-bytes>tsb-alloc-bytes</tsb-alloc-bytes>
    <tsb-max-allocs>tsb-max-allocs</tsb-max-allocs>
    <tsb-max-bytes>tsb-max-bytes</tsb-max-bytes>
    <tsb-free-bytes>tsb-free-bytes</tsb-free-bytes>
  </task-size-block>
</task-size-block-list>
```

Description No documentation is available yet.

Contents <tsb-alloc-bytes>—Number of items allocated in bytes.

<tsb-allocs>—Number of items allocated now not using malloc.

<tsb-free-bytes>—Number of free bytes.

<tsb-mallocs>—Number of items allocated using malloc.

<tsb-max-allocs>—Maximum items ever allocated.

<tsb-max-bytes>—Maximum items ever allocated in bytes.

<tsb-size>—Size of this block.

<tsb-terse-fullpage>—No documentation is available yet.

<tsb-terse-transient>—No documentation is available yet.

<task-size-block-list>

Usage

```
<task-memory-overall-report>
  <task-size-block-list>
    <task-size-block>...</task-size-block>
  </task-size-block-list>
</task-memory-overall-report>
```

Description No documentation is available yet.

Contents <task-size-block>—No documentation is available yet.

<task-timer>

Usage
```
<task>
  <task-timer>
    <timer-name>timer-name</timer-name>
    <timer-late/>
    <timer-expires>timer-expires</timer-expires>
    <timer-jitter>timer-jitter</timer-jitter>
    <timer-interval>timer-interval</timer-interval>
    <timer-flags>timer-flags</timer-flags>
  </task-timer>
</task>
```

Description No documentation is available yet.

Contents <timer-expires>—Time after which timer expires.

<timer-flags>—No documentation is available yet.

<timer-interval>—Time to sleep between timer jobs.

<timer-jitter>—Jitter, in percent.

<timer-late>—Timer is expired but is still running.

<timer-name>—Timer name.

<task-timer-information>

Usage
```
<rpc-reply>
  <task-timer-information>
    <task>...</task>
  </task-timer-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <task>—No documentation is available yet.

<this-bridge>

Usage
```
<cist-bridge-parameters | msti-bridge-parameters | vst-bridge-parameters>
  <this-bridge>
    <bridge-priority>bridge-priority</bridge-priority>
    <bridge-mac>bridge-mac</bridge-mac>
  </this-bridge>
</cist-bridge-parameters | msti-bridge-parameters | vst-bridge-parameters>
```

Description ID of bridge.

Contents <bridge-mac>—Media access control address of bridge.

<bridge-priority>—Bridge priority.

<vlan-map>

Usage

```
<mstp-configuration>
  <vlan-map>
    <vlan-map-entry>...</vlan-map-entry>
  </vlan-map>
</mstp-configuration>
```

Description No documentation is available yet.

Contents <vlan-map-entry>—No documentation is available yet.

<vlan-map-entry>

Usage

```
<vlan-map>
  <vlan-map-entry>
    <msti-id>msti-id</msti-id>
    <vlan-string>vlan-string</vlan-string>
  </vlan-map-entry>
</vlan-map>
```

Description No documentation is available yet.

Contents <msti-id>—MSTI ID.

<vlan-string>—Member VLANs in MSTI.

<vst-bridge-parameters>

Usage

```
<stp-bridge>
  <vst-bridge-parameters>
    <root-bridge>...</root-bridge>
    <root-port>root-port</root-port>
    <root-cost>root-cost</root-cost>
    <hello-time-learned>hello-time-learned</hello-time-learned>
    <max-age-learned>max-age-learned</max-age-learned>
    <forward-delay-learned>forward-delay-learned</forward-delay-learned>
    <msg-age>msg-age</msg-age>
    <time-since-last-tc>time-since-last-tc</time-since-last-tc>
    <topology-change-count>topology-change-count</topology-change-count>
    <extended-system-id>extended-system-id</extended-system-id>
    <this-bridge>...</this-bridge>
    <hello-time-configured>hello-time-configured</hello-time-configured>
    <max-age-configured>max-age-configured</max-age-configured>
    <forward-delay-configured>forward-delay-configured</forward-delay-configured>
    <path-cost-method>path-cost-method</path-cost-method>
  </vst-bridge-parameters>
</stp-bridge>
```

Description STP bridge parameters for VLAN Spanning Tree.

Contents <extended-system-id>—Extended system identifier.

<forward-delay-configured>—Forward delay configured on this bridge.

<forward-delay-learned>—Forward delay.

<hello-time-configured>—Hello time configured on this bridge.

<hello-time-learned>—Hello time.

<max-age-configured>—Maximum age configured on this bridge.

<max-age-learned>—Maximum age for received BPDUs.

<msg-age>—Age of the received BPDU.

<path-cost-method>—Type of path cost method currently in use.

<root-bridge>—Root bridge identifier.

<root-cost>—Root cost.

<root-port>—Root port.

<this-bridge>—ID of bridge.

<time-since-last-tc>—Time since last topology change.

<topology-change-count>—Number of topology changes.

<vstp-interface-statistics>

Usage

```
<stp-interface-statistics>
  <vstp-interface-statistics>
    <stp-interface-statistics-entry>...</stp-interface-statistics-entry>
  </vstp-interface-statistics>
</stp-interface-statistics>
```

Description Statistics information about one or more VLAN STP interfaces.

Contents <stp-interface-statistics-entry>—Spanning Tree Protocol interface statistics.

<vstp-statistics>

Usage

```
<stp-context-statistics-information>
  <vstp-statistics>
    <message-type>message-type</message-type>
    <total-bpdus-sent>total-bpdus-sent</total-bpdus-sent>
    <total-bpdus-received>total-bpdus-received</total-bpdus-received>
    <bpdus-sent-5seconds>bpdus-sent-5seconds</bpdus-sent-5seconds>
    <bpdus-received-5seconds>bpdus-received-5seconds</bpdus-received-5seconds>
  </vstp-statistics>
</stp-context-statistics-information>
```

Description VLAN Spanning Tree Protocol statistics.

Contents <bpdus-received-5seconds>—Total number of BPDUs received on this routing instance in last 5 secs.

<bpdus-sent-5seconds>—Total number of BPDUs sent out for this routing instance in last 5 secs.

<message-type>—Spanning Tree message type.

<total-bpdus-received>—Total number of BPDUs received.

<total-bpdus-sent>—Total number of BPDUs sent out.

Summary of License Response Tags

This section lists JUNOS XML tags that contain operational information about licenses on J Series routers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-license. To review the DTD for the tags, see "DTD for License Response Tags" on page 2295.

<add-individual-result>

Usage

```
<add-license-results>
  <add-individual-result>
    <operation-status>operation-status</operation-status>
    <filename>filename</filename>
    <line-number>line-number</line-number>
    <name>name</name>
    <message>message</message>
  </add-individual-result>
</add-license-results>
```

Description Report status of individual license add operation.

Contents <filename>—File name in which error exist.

<line-number>—Line number where error exist.

<message>—Text to explain the status of an operation.

<name>—Identifier for this object.

<operation-status>—Defines that status of a license operation.

<add-license-results>

Usage

```
<rpc-reply>
  <add-license-results>
    <add-individual-result>...</add-individual-result>
    <add-error-count>add-error-count</add-error-count>
    <add-success/>
  </add-license-results>
</rpc-reply>
```

Description Results of license add operation.

Contents <add-error-count>—Number of errors during add license operation.

<add-individual-result>—Report status of individual license add operation.

<add-success>—Add completed with no errors.

<feature>

Usage

```
<feature-block>
  <feature>
    <name>name</name>
    <description>description</description>
    <validity-information>...</validity-information>
  </feature>
</feature-block>
```

Description A single feature instance.

Contents <description>—Description of feature.

<name>—Identifier for this object.

<validity-information>—No documentation is available yet.

<feature-block>

Usage

```
<license>
  <feature-block>
    <feature>...</feature>
  </feature-block>
</license>
```

Description No documentation is available yet.

Contents <feature>—A single feature instance.

<feature-summary>

Usage

```
<license-usage-summary>
  <feature-summary>
    <name>name</name>
    <description>description</description>
    <licensed>licensed</licensed>
    <used-licensed>used-licensed</used-licensed>
    <used-given>used-given</used-given>
    <needed>needed</needed>
    <validity-type>validity-type</validity-type>
    <remaining-time>...</remaining-time>
    <end-date>end-date</end-date>
  </feature-summary>
</license-usage-summary>
```

Description No documentation is available yet.

Contents <description>—Description of feature.

<end-date>—No documentation is available yet.

<licensed>—Number available in valid licenses.

<name>—Identifier for this object.

<needed>—Number used that require a license above licensed count.

<remaining-time>—No documentation is available yet.

<used-given>—Number used that do not require a license.

<used-licensed>—Number used that require a license.

<validity-type>—Type of validity of the license.

<license>

Usage

```
<license-information>
  <license>
    <name>name</name>
    <license-state>license-state</license-state>
    <license-version>license-version</license-version>
    <license-type>license-type</license-type>
    <device-reference>device-reference</device-reference>
    <group-reference>group-reference</group-reference>
    <group-define>group-define</group-define>
    <unsupported-attribute>unsupported-attribute</unsupported-attribute>
    <feature-block>...</feature-block>
  </license>
</license-information>
```

Description No documentation is available yet.

Contents <device-reference>—License is tied to this device.

<feature-block>—No documentation is available yet.

<group-define>—License defines device to be part of this license group.

<group-reference>—License is tied to this group.

<license-state>—License state.

<license-type>—Type of license.

<license-version>—Version of license.

<name>—Identifier for this object.

<unsupported-attribute>—An attribute that is not recognized by this implementation.

<license-information>

Usage

```
<license-summary-information>
  <license-information>
    <no-licenses-installed/>
    <licenses-installed/>
    <license>...</license>
  </license-information>
</license-summary-information>
```

Description Information about feature licenses installed on device.

Contents <license>—No documentation is available yet.

<licenses-installed>—Feature licenses are installed.

<no-licenses-installed>—No feature licenses are installed.

<license-key>

Usage
```
<license-key-information>
  <license-key>
    <name>name</name>
    <key-data>key-data</key-data>
  </license-key>
</license-key-information>
```

Description No documentation is available yet.

Contents <key-data>—Textual license key.

<name>—Identifier for this object.

<license-key-information>

Usage
```
<rpc-reply>
  <license-key-information>
    <license-key>...</license-key>
  </license-key-information>
</rpc-reply>
```

Description Textual license keys.

Contents <license-key>—No documentation is available yet.

<license-summary-information>

Usage
```
<rpc-reply>
  <license-summary-information>
    <license-usage-summary>...</license-usage-summary>
    <license-information>...</license-information>
  </license-summary-information>
</rpc-reply>
```

Description Feature license information.

Contents <license-information>—Information about feature licenses installed on device.

<license-usage-summary>—Information about features licensed on this device.

<license-usage-summary>

Usage

```
<license-summary-information>
  <license-usage-summary>
    <features-used/>
    <no-feature-used/>
    <feature-summary>...</feature-summary>
  </license-usage-summary>
</license-summary-information>
```

Description Information about features licensed on this device.

Contents <feature-summary>—No documentation is available yet.

<features-used>—Licensed features are being used.

<no-feature-used>—No licensed feature is being used.

<original-validity>

Usage

```
<validity-information>
  <original-validity>
    <original-validity-value>original-validity-value</original-validity-value>
    <original-validity-time-unit>original-validity-time-unit
                </original-validity-time-unit>
  </original-validity>
</validity-information>
```

Description No documentation is available yet.

Contents <original-validity-time-unit>—Unit of time measurement.

<original-validity-value>—Integer value.

<remaining-time>

Usage

```
<validity-information | feature-summary>
  <remaining-time>
    <remaining-validity-value>remaining-validity-value</remaining-validity-value>
    <remaining-validity-time-unit>remaining-validity-time-unit
                </remaining-validity-time-unit>
  </remaining-time>
</validity-information | feature-summary>
```

Description No documentation is available yet.

Contents <remaining-validity-time-unit>—Unit of time measurement.

<remaining-validity-value>—Integer value.

<validity-information>

Usage

```
<feature>
  <validity-information>
    <validity-type>validity-type</validity-type>
    <original-validity>...</original-validity>
    <remaining-time>...</remaining-time>
    <start-date>start-date</start-date>
    <end-date>end-date</end-date>
    <license-state>license-state</license-state>
  </validity-information>
</feature>
```

Description No documentation is available yet.

Contents

<end-date>—No documentation is available yet.

<license-state>—License state.

<original-validity>—No documentation is available yet.

<remaining-time>—No documentation is available yet.

<start-date>—No documentation is available yet.

<validity-type>—Type of validity of the license.

Summary of Licensed Feature Metadata Response Tags

This section lists JUNOS XML tags that contain operational information about the licensed feature metadata. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-licensed-feature-metadata. To review the DTD for the tags, see "DTD for Licensed Feature Metadata Response Tags" on page 2299.

<alias>

Usage

```
<licensed-feature>
  <alias>
    <base-feature>base-feature</base-feature>
    <cummulative-value>cummulative-value</cummulative-value>
  </alias>
</licensed-feature>
```

Description No documentation is available yet.

Contents <base-feature>—Alias for the base feature.

<cummulative-value>—The number of features being aliased.

<licensed-feature>

Usage

```
<licensed-feature-metadata-information>
  <licensed-feature>
    <id>id</id>
    <name>name</name>
    <description>description</description>
    <flag>flag</flag>
    <alias>...</alias>
  </licensed-feature>
</licensed-feature-metadata-information>
```

Description Information on a licensed feature.

Contents <alias>—No documentation is available yet.

<description>—Feature description.

<flag>—Feature flags.

<id>—Feature ID.

<name>—Feature display name.

<licensed-feature-metadata-information>

Usage

```
<rpc-reply>
  <licensed-feature-metadata-information>
    <licensed-feature>...</licensed-feature>
  </licensed-feature-metadata-information>
</rpc-reply>
```

Description Informtation on one or more licensed features.

Contents <licensed-feature>—Information on a licensed feature.

Summary of Link-Fault Management Response Tags

This section lists JUNOS XML tags that contain operational information about link-fault management (802.3ah Operation, Administration, and Management). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-lfm. To review the DTD for the tags, see "DTD for Link-Fault Management Response Tags" on page 2289.

<lfmd-action-profile-information>

Usage

```
<lfmd-information>
  <lfmd-action-profile-information>
    <lfmd-action-profile-name>lfmd-action-profile-name</lfmd-action-profile-name>
    <lfmd-action-profile-invoke-count>lfmd-action-profile-invoke-count
                </lfmd-action-profile-invoke-count>
    <lfmd-action-profile-execution-count>lfmd-action-profile-execution-count
                </lfmd-action-profile-execution-count>
  </lfmd-action-profile-information>
</lfmd-information>
```

Description Link-fault action profile information.

Contents <lfmd-action-profile-execution-count>—Number of times the action profile has been executed.

<lfmd-action-profile-invoke-count>—Number of times the action profile has been invoked.

<lfmd-action-profile-name>—Name of action profile.

<lfmd-discovery-flags>

Usage

```
<lfmd-interface-information>
  <lfmd-discovery-flags>
    <lfmd-flag-remote-stable/>
    <lfmd-flag-remote-evaluating/>
    <lfmd-flag-remote-state-valid/>
    <lfmd-flag-local-satisfied/>
    <lfmd-flag-local-stable/>
    <lfmd-pdu-flags>lfmd-pdu-flags</lfmd-pdu-flags>
  </lfmd-discovery-flags>
</lfmd-interface-information>
```

Description No documentation is available yet.

Contents <lfmd-flag-local-satisfied>—No documentation is available yet.

<lfmd-flag-local-stable>—No documentation is available yet.

<lfmd-flag-remote-evaluating>—No documentation is available yet.

<lfmd-flag-remote-stable>—No documentation is available yet.

<lfmd-flag-remote-state-valid>—No documentation is available yet.

<lfmd-pdu-flags>—No documentation is available yet.

<lfmd-event-received-frame-error>

Usage

```
<lfmd-events-received>
  <lfmd-event-received-frame-error>
    <lfmd-event-received-frame-error-window>lfmd-event-received-frame-error-window
                </lfmd-event-received-frame-error-window>

    <lfmd-event-received-frame-error-threshold>lfmd-event-received-frame-error-threshold
                </lfmd-event-received-frame-error-threshold>
    <lfmd-event-received-frame-error-count>lfmd-event-received-frame-error-count
                </lfmd-event-received-frame-error-count>

    <lfmd-event-received-frame-error-total-count>lfmd-event-received-frame-error-total-count
                </lfmd-event-received-frame-error-total-count>
    <lfmd-event-received-frame-count>lfmd-event-received-frame-count
                </lfmd-event-received-frame-count>
  </lfmd-event-received-frame-error>
</lfmd-events-received>
```

Description Errored frame event information.

Contents <lfmd-event-received-frame-count>—Errored frame event count.

<lfmd-event-received-frame-error-count>—Errored frame count.

<lfmd-event-received-frame-error-threshold>—Errored frame event threshold.

<lfmd-event-received-frame-error-total-count>—Errored frame event total count.

<lfmd-event-received-frame-error-window>—Errored frame event window.

<lfmd-event-received-frame-period-error>

Usage

```
<lfmd-events-received>
  <lfmd-event-received-frame-period-error>

<lfmd-event-received-frame-period-error-window>lfmd-event-received-frame-period-error-
window
                    </lfmd-event-received-frame-period-error-window>

<lfmd-event-received-frame-period-error-threshold>lfmd-event-received-frame-period-erro
r-threshold
                    </lfmd-event-received-frame-period-error-threshold>

<lfmd-event-received-frame-period-error-count>lfmd-event-received-frame-period-error-co
unt
                    </lfmd-event-received-frame-period-error-count>

<lfmd-event-received-frame-period-error-total-count>lfmd-event-received-frame-period-err
or-total-count
                    </lfmd-event-received-frame-period-error-total-count>
    <lfmd-event-received-frame-period-count>lfmd-event-received-frame-period-count
                    </lfmd-event-received-frame-period-count>
  </lfmd-event-received-frame-period-error>
</lfmd-events-received>
```

Description Errored frame period event information.

Contents <lfmd-event-received-frame-period-count>—Errored frame period event count.

<lfmd-event-received-frame-period-error-count>—Errored frame period count.

<lfmd-event-received-frame-period-error-threshold>—Errored frame period event threshold.

<lfmd-event-received-frame-period-error-total-count>—Errored frame period event total count.

<lfmd-event-received-frame-period-error-window>—Errored frame period event window.

<lfmd-event-received-frame-seconds-error>

Usage

```
<lfmd-events-received>
  <lfmd-event-received-frame-seconds-error>

<lfmd-event-received-frame-seconds-error-window>lfmd-event-received-frame-seconds-error-window
                </lfmd-event-received-frame-seconds-error-window>

<lfmd-event-received-frame-seconds-error-threshold>lfmd-event-received-frame-seconds-error-threshold
                </lfmd-event-received-frame-seconds-error-threshold>

<lfmd-event-received-frame-seconds-error-count>lfmd-event-received-frame-seconds-error-count
                </lfmd-event-received-frame-seconds-error-count>

<lfmd-event-received-frame-seconds-error-total-count>lfmd-event-received-frame-seconds-error-total-count
                </lfmd-event-received-frame-seconds-error-total-count>

<lfmd-event-received-frame-seconds-count>lfmd-event-received-frame-seconds-count
                </lfmd-event-received-frame-seconds-count>
  </lfmd-event-received-frame-seconds-error>
</lfmd-events-received>
```

Description Errored frame seconds event information.

Contents

<lfmd-event-received-frame-seconds-count>—Errored frame seconds event count.

<lfmd-event-received-frame-seconds-error-count>—Errored frame seconds count.

<lfmd-event-received-frame-seconds-error-threshold>—Errored frame seconds event threshold.

<lfmd-event-received-frame-seconds-error-total-count>—Errored frame seconds event total count.

<lfmd-event-received-frame-seconds-error-window>—Errored frame seconds event window.

<lfmd-event-received-symbol-error>

Usage

```
<lfmd-events-received>
  <lfmd-event-received-symbol-error>
    <lfmd-event-received-symbol-error-window>lfmd-event-received-symbol-error-window
                </lfmd-event-received-symbol-error-window>

<lfmd-event-received-symbol-error-threshold>lfmd-event-received-symbol-error-threshold
                </lfmd-event-received-symbol-error-threshold>
    <lfmd-event-received-symbol-error-count>lfmd-event-received-symbol-error-count
                </lfmd-event-received-symbol-error-count>

<lfmd-event-received-symbol-error-total-count>lfmd-event-received-symbol-error-total-cou
nt
                </lfmd-event-received-symbol-error-total-count>
    <lfmd-event-received-symbol-count>lfmd-event-received-symbol-count
                </lfmd-event-received-symbol-count>
  </lfmd-event-received-symbol-error>
</lfmd-events-received>
```

Description Errored symbol period event information.

Contents <lfmd-event-received-symbol-count>—Errored symbol period event count.

<lfmd-event-received-symbol-error-count>—Errored symbol count.

<lfmd-event-received-symbol-error-threshold>—Errored symbol period event threshold.

<lfmd-event-received-symbol-error-total-count>—Errored symbol period event total count.

<lfmd-event-received-symbol-error-window>—Errored symbol period event window.

<lfmd-event-transmitted-frame-error>

Usage

```
<lfmd-events-transmitted>
  <lfmd-event-transmitted-frame-error>

<lfmd-event-transmitted-frame-error-window>lfmd-event-transmitted-frame-error-window
                </lfmd-event-transmitted-frame-error-window>

<lfmd-event-transmitted-frame-error-threshold>lfmd-event-transmitted-frame-error-thresh
old
                </lfmd-event-transmitted-frame-error-threshold>
    <lfmd-event-transmitted-frame-error-count>lfmd-event-transmitted-frame-error-count
                </lfmd-event-transmitted-frame-error-count>

<lfmd-event-transmitted-frame-error-total-count>lfmd-event-transmitted-frame-error-total-
count
                </lfmd-event-transmitted-frame-error-total-count>
    <lfmd-event-transmitted-frame-count>lfmd-event-transmitted-frame-count
                </lfmd-event-transmitted-frame-count>
  </lfmd-event-transmitted-frame-error>
</lfmd-events-transmitted>
```

Description Errored frame event information.

Contents <lfmd-event-transmitted-frame-count>—Errored frame event count.

<lfmd-event-transmitted-frame-error-count>—Errored frame count.

<lfmd-event-transmitted-frame-error-threshold>—Errored frame event threshold.

<lfmd-event-transmitted-frame-error-total-count>—Errored frame event total count.

<lfmd-event-transmitted-frame-error-window>—Errored frame event window.

<lfmd-event-transmitted-symbol-error>

Usage

```
<lfmd-events-transmitted>
  <lfmd-event-transmitted-symbol-error>
    <lfmd-event-transmitted-symbol-error-window>lfmd-evnt-transmitted-symb-err-windw
        </lfmd-event-transmitted-symbol-error-window>
    <lfmd-event-transmitted-symbol-error-threshold>lfmd-evnt-transmtd-sym-err-thrshold
        </lfmd-event-transmitted-symbol-error-threshold>
    <lfmd-event-transmitted-symbol-error-count>lfmd-event-trsmttd-sym-error-cnt
        </lfmd-event-transmitted-symbol-error-count>
    <lfmd-event-transmitted-symbol-error-total-count>lfmd-evnt-trnsmtd-sym-err-ttl-count
        </lfmd-event-transmitted-symbol-error-total-count>
    <lfmd-event-transmitted-symbol-count>lfmd-event-transmitted-symbol-count
        </lfmd-event-transmitted-symbol-count>
  </lfmd-event-transmitted-symbol-error>
</lfmd-events-transmitted>
```

Description Errored symbol period event information.

Contents <lfmd-event-transmitted-symbol-count>—Errored symbol period event count.

<lfmd-event-transmitted-symbol-error-count>—Errored symbol period event count.

<lfmd-event-transmitted-symbol-error-threshold>—Errored symbol period event threshold.

<lfmd-event-transmitted-symbol-error-total-count>—Errored symbol period event total count.

<lfmd-event-transmitted-symbol-error-window>—Errored symbol period event window.

<lfmd-events>

Usage

```
<lfmd-interface-information>
  <lfmd-events>
    <lfmd-events-received>...</lfmd-events-received>
    <lfmd-events-transmitted>...</lfmd-events-transmitted>
  </lfmd-events>
</lfmd-interface-information>
```

Description Event information.

Contents <lfmd-events-received>—Received link events.

<lfmd-events-transmitted>—Transmitted link events.

<lfmd-events-received>

Usage
```
<lfmd-events>
  <lfmd-events-received>
    <lfmd-event-received-symbol-error>...</lfmd-event-received-symbol-error>
    <lfmd-event-received-frame-error>...</lfmd-event-received-frame-error>
    <lfmd-event-received-frame-period-error>...
                </lfmd-event-received-frame-period-error>
    <lfmd-event-received-frame-seconds-error>...
                </lfmd-event-received-frame-seconds-error>
  </lfmd-events-received>
</lfmd-events>
```

Description Received link events.

Contents <lfmd-event-received-frame-error>—Errored frame event information.

<lfmd-event-received-frame-period-error>—Errored frame period event information.

<lfmd-event-received-frame-seconds-error>—Errored frame seconds event information.

<lfmd-event-received-symbol-error>—Errored symbol period event information.

<lfmd-events-transmitted>

Usage
```
<lfmd-events>
  <lfmd-events-transmitted>
    <lfmd-event-transmitted-symbol-error>...</lfmd-event-transmitted-symbol-error>
    <lfmd-event-transmitted-frame-error>...</lfmd-event-transmitted-frame-error>
  </lfmd-events-transmitted>
</lfmd-events>
```

Description Transmitted link events.

Contents <lfmd-event-transmitted-frame-error>—Errored frame event information.

<lfmd-event-transmitted-symbol-error>—Errored symbol period event information.

<lfmd-information>

Usage
```
<rpc-reply>
  <lfmd-information>
    <lfmd-interface-information>...</lfmd-interface-information>
    <lfmd-action-profile-information>...</lfmd-action-profile-information>
  </lfmd-information>
</rpc-reply>
```

Description Information about the Link-Fault Management protocol.

Contents <lfmd-action-profile-information>—Link-fault action profile information.

<lfmd-interface-information>—Link-fault management information for one or more interfaces.

<lfmd-interface-information>

Usage

```
<lfmd-information>
  <lfmd-interface-information>
    <lfmd-interface-name>lfmd-interface-name</lfmd-interface-name>
    <lfmd-status>lfmd-status</lfmd-status>
    <lfmd-discovery-state>lfmd-discovery-state</lfmd-discovery-state>
    <lfmd-discovery-flags>...</lfmd-discovery-flags>
    <lfmd-peer-address>lfmd-peer-address</lfmd-peer-address>
    <lfmd-peer-mux-action>lfmd-peer-mux-action</lfmd-peer-mux-action>
    <lfmd-peer-parser-action>lfmd-peer-parser-action</lfmd-peer-parser-action>
    <lfmd-peer-config-mode>lfmd-peer-config-mode</lfmd-peer-config-mode>
    <lfmd-peer-config-unidirectional>lfmd-peer-config-unidirectional
            </lfmd-peer-config-unidirectional>
    <lfmd-peer-config-loopback>lfmd-peer-config-loopback
            </lfmd-peer-config-loopback>
    <lfmd-peer-config-link-events>lfmd-peer-config-link-events
            </lfmd-peer-config-link-events>
    <lfmd-peer-config-variable-request>lfmd-peer-config-variable-request
            </lfmd-peer-config-variable-request>
    <lfmd-loopback-local-enabled/>
    <lfmd-loopback-remote-enabled/>
    <lfmd-statistics>...</lfmd-statistics>
    <lfmd-events>...</lfmd-events>
  </lfmd-interface-information>
</lfmd-information>
```

Description Link-fault management information for one or more interfaces.

Contents <lfmd-discovery-flags>—No documentation is available yet.

<lfmd-discovery-state>—No documentation is available yet.

<lfmd-events>—Event information.

<lfmd-interface-name>—Name of interface.

<lfmd-loopback-local-enabled>—No documentation is available yet.

<lfmd-loopback-remote-enabled>—No documentation is available yet.

<lfmd-peer-address>—No documentation is available yet.

<lfmd-peer-config-link-events>—Support for remote peer link events.

<lfmd-peer-config-loopback>—Support for remote peer loopback mode.

<lfmd-peer-config-mode>—Remote peer discovery configuration.

<lfmd-peer-config-unidirectional>—Support for remote peer unidirectional mode.

<lfmd-peer-config-variable-request>—Support for remote peer variable requests.

<lfmd-peer-mux-action>—Remote multiplexor action.

<lfmd-peer-parser-action>—Remote parser action.

<lfmd-statistics>—Interface statistics.

<lfmd-status>—Status of 802.3ah on the interface.

<lfmd-statistics>

Usage

```
<lfmd-interface-information>
  <lfmd-statistics>
    <lfmd-statistics-received>...</lfmd-statistics-received>
    <lfmd-statistics-transmitted>...</lfmd-statistics-transmitted>
  </lfmd-statistics>
</lfmd-interface-information>
```

Description Interface statistics.

Contents <lfmd-statistics-received>—OAM receive statistics.

<lfmd-statistics-transmitted>—OAM transmit statistics.

<lfmd-statistics-received>

Usage

```
<lfmd-statistics>
  <lfmd-statistics-received>
    <lfmd-information-pdus-received>lfmd-information-pdus-received
                </lfmd-information-pdus-received>
    <lfmd-event-pdus-received>lfmd-event-pdus-received</lfmd-event-pdus-received>
    <lfmd-variable-request-pdus-received>lfmd-variable-request-pdus-received
                </lfmd-variable-request-pdus-received>
    <lfmd-variable-response-pdus-received>lfmd-variable-response-pdus-received
                </lfmd-variable-response-pdus-received>
    <lfmd-loopback-control-pdus-received>lfmd-loopback-control-pdus-received
                </lfmd-loopback-control-pdus-received>
    <lfmd-organization-pdus-received>lfmd-organization-pdus-received
                </lfmd-organization-pdus-received>
    <lfmd-unknown-pdus-received>lfmd-unknown-pdus-received
                </lfmd-unknown-pdus-received>
    <lfmd-critical-event-received>lfmd-critical-event-received
                </lfmd-critical-event-received>
    <lfmd-dying-gasp-received>lfmd-dying-gasp-received</lfmd-dying-gasp-received>
    <lfmd-link-fault-received>lfmd-link-fault-received</lfmd-link-fault-received>
  </lfmd-statistics-received>
</lfmd-statistics>
```

Description OAM receive statistics.

Contents

<lfmd-critical-event-received>—Number of PDUs received with Critical event flag bit set.

<lfmd-dying-gasp-received>—Number of PDUs received with Dying gasp flag bit set.

<lfmd-event-pdus-received>—Number of event PDUs received.

<lfmd-information-pdus-received>—Number of information PDUs received.

<lfmd-link-fault-received>—Number of PDUs received with Link fault flag bit set.

<lfmd-loopback-control-pdus-received>—Number of loopback-control PDUs received.

<lfmd-organization-pdus-received>—Number of organization-specific PDUs received.

<lfmd-unknown-pdus-received>—Number of unknown PDUs received.

<lfmd-variable-request-pdus-received>—Number of variable-request PDUs received.

<lfmd-variable-response-pdus-received>—Number of variable-response PDUs received.

<lfmd-statistics-transmitted>

Usage

```
<lfmd-statistics>
  <lfmd-statistics-transmitted>
    <lfmd-information-pdus-transmitted>lfmd-information-pdus-transmitted
                </lfmd-information-pdus-transmitted>
    <lfmd-event-pdus-transmitted>lfmd-event-pdus-transmitted
                </lfmd-event-pdus-transmitted>
    <lfmd-variable-request-pdus-transmitted>lfmd-variable-request-pdus-transmitted
                </lfmd-variable-request-pdus-transmitted>
    <lfmd-variable-response-pdus-transmitted>lfmd-variable-response-pdus-transmitted
                </lfmd-variable-response-pdus-transmitted>
    <lfmd-loopback-control-pdus-transmitted>lfmd-loopback-control-pdus-transmitted
                </lfmd-loopback-control-pdus-transmitted>
    <lfmd-organization-pdus-transmitted>lfmd-organization-pdus-transmitted
                </lfmd-organization-pdus-transmitted>
    <lfmd-unknown-pdus-transmitted>lfmd-unknown-pdus-transmitted
                </lfmd-unknown-pdus-transmitted>
  </lfmd-statistics-transmitted>
</lfmd-statistics>
```

Description OAM transmit statistics.

Contents <lfmd-event-pdus-transmitted>—Number of event PDUs transmitted.

<lfmd-information-pdus-transmitted>—Number of information PDUs transmitted.

<lfmd-loopback-control-pdus-transmitted>—Number of loopback-control PDUs transmitted.

<lfmd-organization-pdus-transmitted>—Number of organization-specific PDUs transmitted.

<lfmd-unknown-pdus-transmitted>—Number of unknown PDUs transmitted.

<lfmd-variable-request-pdus-transmitted>—Number of variable-request PDUs transmitted.

<lfmd-variable-response-pdus-transmitted>—Number of variable-response PDUs transmitted.

Summary of LLDP Response Tags

This section lists JUNOS XML tags that contain operational information about LLDP response elements. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/lldp-mtx.

<lldp>

Usage

```
<rpc-reply>
  <lldp>
    <lldp-interface-information>...</lldp-interface-information>
    <lldp-global-status>lldp-global-status</lldp-global-status>
    <lldp-advertisement-interval>lldp-advertisement-interval
                </lldp-advertisement-interval>
    <lldp-transmit-delay-interval>lldp-transmit-delay-interval
                </lldp-transmit-delay-interval>
    <lldp-hold-time-interval>lldp-hold-time-interval</lldp-hold-time-interval>
    <lldp-notification-interval>lldp-notification-interval
                </lldp-notification-interval>
    <ptopo-configuration-trap-interval>ptopo-configuration-trap-interval
                </ptopo-configuration-trap-interval>

<ptopo-maximum-hold-time>ptopo-maximum-hold-time</ptopo-maximum-hold-time>
    <lldp-basic-tlv-supported>lldp-basic-tlv-supported</lldp-basic-tlv-supported>
    <lldp-802-tlv-supported>lldp-802-tlv-supported</lldp-802-tlv-supported>
    <lldp-exported-vlan-information>...</lldp-exported-vlan-information>
  </lldp>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<lldp-802-tlv-supported>—No documentation is available yet.

<lldp-advertisement-interval>—Advertisement interval.

<lldp-basic-tlv-supported>—No documentation is available yet.

<lldp-exported-vlan-information>—No documentation is available yet.

<lldp-global-status>—Global administration status.

<lldp-hold-time-interval>—Hold time interval.

<lldp-interface-information>—No documentation is available yet.

<lldp-notification-interval>—LLDP notification interval.

<lldp-transmit-delay-interval>—Transmit delay interval.

<ptopo-configuration-trap-interval>—Physical topology configuration change trap interval.

<ptopo-maximum-hold-time>—Physical topology connections maximum hold time interval.

<lldp-exported-vlan-information>

Usage

```
<lldp>
  <lldp-exported-vlan-information>
    <lldp-vlan-interface-name>lldp-vlan-interface-name</lldp-vlan-interface-name>
    <lldp-vlan-tag>lldp-vlan-tag</lldp-vlan-tag>
    <lldp-vlan-name>lldp-vlan-name</lldp-vlan-name>
  </lldp-exported-vlan-information>
</lldp>
```

Description No documentation is available yet.

Contents <lldp-vlan-interface-name>—VLAN interface name.

<lldp-vlan-name>—VLAN name.

<lldp-vlan-tag>—VLAN tag.

<lldp-interface-information>

Usage

```
<lldp>
  <lldp-interface-information>
    <lldp-interface-name>lldp-interface-name</lldp-interface-name>
    <lldp-interface-status>lldp-interface-status</lldp-interface-status>
    <lldp-interface-neighbor-count>lldp-interface-neighbor-count
                  </lldp-interface-neighbor-count>
  </lldp-interface-information>
</lldp>
```

Description No documentation is available yet.

Contents <lldp-interface-name>—Interface name.

<lldp-interface-neighbor-count>—Number of neighbors on this interface.

<lldp-interface-status>—Per interface administrative status for basic LLDP.

<lldp-interface-statistics>

Usage

```
<lldp-statistics>
  <lldp-interface-statistics>
    <lldp-statistics-interface-name>lldp-statistics-interface-name
                </lldp-statistics-interface-name>
    <lldp-receive-packet-count>lldp-receive-packet-count
                </lldp-receive-packet-count>
    <lldp-receive-packet-unknown-tlvs>lldp-receive-packet-unknown-tlvs
                </lldp-receive-packet-unknown-tlvs>
    <lldp-receive-packet-error-count>lldp-receive-packet-error-count
                </lldp-receive-packet-error-count>
    <lldp-receive-tlv-discard-count>lldp-receive-tlv-discard-count
                </lldp-receive-tlv-discard-count>
    <lldp-transmit-packet-count>lldp-transmit-packet-count
                </lldp-transmit-packet-count>
    <lldp-transmit-packet-error-count>lldp-transmit-packet-error-count
                </lldp-transmit-packet-error-count>
  </lldp-interface-statistics>
</lldp-statistics>
```

Description Interface statistics.

Contents <lldp-receive-packet-count>—Number of LLDP packets received.

<lldp-receive-packet-error-count>—Number of received LLDP packets with bad (tlv) format so far.

<lldp-receive-packet-unknown-tlvs>—Number of received LLDP packets with unknown TLVs.

<lldp-receive-tlv-discard-count>—Number of received LLDP packets with bad (tlv) and thus discarded so far.

<lldp-statistics-interface-name>—Interface for which statistics are shown.

<lldp-transmit-packet-count>—Number of transmitted LLDP packets.

<lldp-transmit-packet-error-count>—Number of untransmitted LLDP packets.

<lldp-local-info>

Usage

```
<rpc-reply>
  <lldp-local-info>
    <lldp-local-interface-info>...</lldp-local-interface-info>
    <lldp-local-chassis-id>lldp-local-chassis-id</lldp-local-chassis-id>
    <lldp-local-system-name>lldp-local-system-name</lldp-local-system-name>
    <lldp-local-system-description>lldp-local-system-description
                </lldp-local-system-description>
    <lldp-local-system-capabilities-supported>lldp-lcl-sys-capblts-suprtd
                </lldp-local-system-capabilities-supported>
    <lldp-local-system-capabilities-enabled>lldp-lcl-sys-capblts-enbld
                </lldp-local-system-capabilities-enabled>
    <lldp-local-management-address-interface-name>lldp-lcl-mgmt-address-int-name
                </lldp-local-management-address-interface-name>
    <lldp-local-management-address-subtype>lldp-lcl-mgmnt-addrs-subtyp
                </lldp-local-management-address-subtype>
    <lldp-local-management-address-address>lldp-lcl-mgmnt-addrs-addrs
                </lldp-local-management-address-address>
    <lldp-local-management-address-interface-number>lldp-lcl-mgmnt-addrs-int-num
                </lldp-local-management-address-interface-number>

<lldp-local-management-address-interface-number-subtype>lldp-lc-mgt-adrs-int-num-sub
                </lldp-local-management-address-interface-number-subtype>
  </lldp-local-info>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<lldp-local-chassis-id>—No documentation is available yet.

<lldp-local-interface-info>—No documentation is available yet.

<lldp-local-management-address-address>—LLDP local management interface address .

<lldp-local-management-address-interface-name>—LLDP local management interaface name.

<lldp-local-management-address-interface-number>—LLDP local management address interface number.

<lldp-local-management-address-interface-number-subtype>—LLDP local management interface number subtype.

<lldp-local-management-address-subtype>—LLDP local management interface address subtype .

<lldp-local-system-capabilities-enabled>—LLDP local system capabilities enabled.

<lldp-local-system-capabilities-supported>—LLDP local system capabilities supported.

<lldp-local-system-description>—No documentation is available yet.

<lldp-local-system-name>—No documentation is available yet.

<lldp-local-interface-info>

Usage

```
<lldp-local-info>
  <lldp-local-interface-info>
    <lldp-local-interface-name>lldp-local-interface-name
                </lldp-local-interface-name>
    <lldp-local-interface-id>lldp-local-interface-id</lldp-local-interface-id>
    <lldp-local-interface-description>lldp-local-interface-description
                </lldp-local-interface-description>
    <lldp-local-interface-status>lldp-local-interface-status
                </lldp-local-interface-status>
  </lldp-local-interface-info>
</lldp-local-info>
```

Description No documentation is available yet.

Contents <lldp-local-interface-description>—No documentation is available yet.

<lldp-local-interface-id>—No documentation is available yet.

<lldp-local-interface-name>—No documentation is available yet.

<lldp-local-interface-status>—Interface status.

<lldp-neighbor-information>

Usage <lldp-neighbors-information>

<lldp-neighbor-information>

<lldp-index>*lldp-index*</lldp-index>
<lldp-ttl>*lldp-ttl*</lldp-ttl>
<lldp-timemark>*lldp-timemark*</lldp-timemark>
<lldp-age>*lldp-age*</lldp-age>
<lldp-local-interface>*lldp-local-interface*</lldp-local-interface>
<lldp-local-port-id>*lldp-local-port-id*</lldp-local-port-id>
<lldp-remote-chassis-id-subtype>*lldp-remote-chassis-id-subtype*
</lldp-remote-chassis-id-subtype>
<lldp-remote-chassis-id>*lldp-remote-chassis-id*</lldp-remote-chassis-id>
<lldp-remote-port-id-subtype>*lldp-remote-port-id-subtype*
</lldp-remote-port-id-subtype>
<lldp-remote-port-id>*lldp-remote-port-id*</lldp-remote-port-id>
<lldp-remote-port-description>*lldp-remote-port-description*
</lldp-remote-port-description>
<lldp-remote-system-name>*lldp-remote-system-name*</lldp-remote-system-name>
<lldp-system-description>...</lldp-system-description>
<lldp-remote-system-capabilities-supported>*lldp-rem-system-capabilities-supported*
</lldp-remote-system-capabilities-supported>
<lldp-remote-system-capabilities-enabled>*lldp-remote-system-capabilities-enabled*
</lldp-remote-system-capabilities-enabled>
<lldp-remote-inventory-network-policy>*lldp-remote-inventory-network-policy*
</lldp-remote-inventory-network-policy>
<lldp-remote-inventory-hardware-revision>*lldp-remote-inventory-hardware-revision*
</lldp-remote-inventory-hardware-revision>
<lldp-remote-inventory-firmware-revision>*lldp-remote-inventory-firmware-revision*
</lldp-remote-inventory-firmware-revision>
<lldp-remote-inventory-software-revision>*lldp-remote-inventory-software-revision*
</lldp-remote-inventory-software-revision>
<lldp-remote-inventory-serial-number>*lldp-remote-inventory-serial-number*
</lldp-remote-inventory-serial-number>
<lldp-remote-inventory-manufacturer-name>*lldp-remt-inventry-maftr-name*
</lldp-remote-inventory-manufacturer-name>
<lldp-remote-inventory-model-name>*lldp-remote-inventory-model-name*
</lldp-remote-inventory-model-name>
<lldp-remote-inventory-asset-id>*lldp-remote-inventory-asset-id*
</lldp-remote-inventory-asset-id>
<lldp-remote-management-address-type>*lldp-remote-management-address-type*
</lldp-remote-management-address-type>
<lldp-remote-management-address>*lldp-remote-management-address*
</lldp-remote-management-address>
<lldp-remote-management-address-port-id>*lldp-remt-mgmnt-adrs-port-id*
</lldp-remote-management-address-port-id>
<lldp-remote-management-address-sub-type>*lldp-remt-mgmnt-adress-sub-type*
</lldp-remote-management-address-sub-type>
<lldp-remote-management-address-interface-subtype>*lldp-rmt-mgt-adress-intrf-stype*
</lldp-remote-management-address-interface-subtype>
<lldp-remote-management-addr-oid>*lldp-rmt-mgmnt-addr-oid*
</lldp-remote-management-addr-oid>
<lldp-remote-org-def-info-oui>*lldp-remote-org-def-info-oui*
</lldp-remote-org-def-info-oui>

```
        <lldp-remote-org-def-info-subtype>lldp-remote-org-def-info-subtype
                </lldp-remote-org-def-info-subtype>
        <lldp-remote-org-def-info-index>lldp-remote-org-def-info-index
                </lldp-remote-org-def-info-index>
        <lldp-remote-org-def-info>lldp-remote-org-def-info</lldp-remote-org-def-info>
        <lldp-remote-unknown-tlv-type>lldp-remote-unknown-tlv-type
                </lldp-remote-unknown-tlv-type>
        <lldp-remote-unknown-tlv-info>lldp-remote-unknown-tlv-info
                </lldp-remote-unknown-tlv-info>
      </lldp-neighbor-information>
    </lldp-neighbors-information>
```

Description No documentation is available yet.

Contents <lldp-age>—Age of record.

<lldp-index>—LLDP index.

<lldp-local-interface>—Interface on which neighbor information was received.

<lldp-local-port-id>—Port on which neighbor information was received.

<lldp-remote-chassis-id>—LLDP remote chassis ID.

<lldp-remote-chassis-id-subtype>—LLDP remote chassis ID subtype.

<lldp-remote-inventory-asset-id>—No documentation is available yet.

<lldp-remote-inventory-firmware-revision>—No documentation is available yet.

<lldp-remote-inventory-hardware-revision>—No documentation is available yet.

<lldp-remote-inventory-manufacturer-name>—No documentation is available yet.

<lldp-remote-inventory-model-name>—No documentation is available yet.

<lldp-remote-inventory-network-policy>—No documentation is available yet.

<lldp-remote-inventory-serial-number>—No documentation is available yet.

<lldp-remote-inventory-software-revision>—No documentation is available yet.

<lldp-remote-management-addr-oid>—LLDP OID value advertised by the remote system.

<lldp-remote-management-address>—Management address for use by SNMP manager query.

<lldp-remote-management-address-interface-subtype>—Enumeration value that identifies the interface numbering method used for defining the interface number associated with the remote system.

<lldp-remote-management-address-port-id>—Port ID of Management address for use by SNMP manager query.

<lldp-remote-management-address-sub-type>—LLDP remote system management address Subtype.

<lldp-remote-management-address-type>—Management address for use by SNMP manager query.

<lldp-remote-org-def-info>—Value used to identify the organizationally defined information of the remote system.

<lldp-remote-org-def-info-index>—Value used by agent to identify a particular unrecognized organizationally defined information.

<lldp-remote-org-def-info-oui>—Organizationally Unique Identifier globally unique assigned number of the information received from the remote system.

<lldp-remote-org-def-info-subtype>—Subtype of the organizationally defined information received from the remote system.

<lldp-remote-port-description>—LLDP remote port ID.

<lldp-remote-port-id>—LLDP remote port ID.

<lldp-remote-port-id-subtype>—LLDP remote port ID subtype.

<lldp-remote-system-capabilities-enabled>—No documentation is available yet.

<lldp-remote-system-capabilities-supported>—No documentation is available yet.

<lldp-remote-system-name>—Administratively assigned host name of remote neighbor.

<lldp-remote-unknown-tlv-info>—Value extracted from the value field of TLV.

<lldp-remote-unknown-tlv-type>—Type extracted from the TLV.

<lldp-system-description>—No documentation is available yet.

<lldp-timemark>—When neighbor information was received.

<lldp-ttl>—How long until the neighbor record expired.

<lldp-neighbors-information>

Usage

```
<rpc-reply>
  <lldp-neighbors-information>
    <lldp-neighbor-information>...</lldp-neighbor-information>
  </lldp-neighbors-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lldp-neighbor-information>—No documentation is available yet.

<lldp-remote-global-statistics>

Usage

```
<rpc-reply>
  <lldp-remote-global-statistics>
    <lldp-last-change-time>lldp-last-change-time</lldp-last-change-time>
    <lldp-inserts>lldp-inserts</lldp-inserts>
    <lldp-deletes>lldp-deletes</lldp-deletes>
    <lldp-drops>lldp-drops</lldp-drops>
    <lldp-ageouts>lldp-ageouts</lldp-ageouts>
  </lldp-remote-global-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lldp-ageouts>—LLDP ageouts.

<lldp-deletes>—LLDP deletes.

<lldp-drops>—LLDP drops.

<lldp-inserts>—LLDP inserts.

<lldp-last-change-time>—LLDP last change time.

<lldp-statistics>

Usage

```
<rpc-reply>
  <lldp-statistics>
    <lldp-interface-statistics>...</lldp-interface-statistics>
  </lldp-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lldp-interface-statistics>—Interface statistics.

<lldp-system-description>

Usage

```
<lldp-neighbor-information>
  <lldp-system-description>
    <lldp-remote-system-description>lldp-remote-system-description
                </lldp-remote-system-description>
  </lldp-system-description>
</lldp-neighbor-information>
```

Description No documentation is available yet.

Contents <lldp-remote-system-description>—System information.

Summary of Local Policy Decision Response Tags

This section lists JUNOS XML tags that contain operational information about local policy decisions. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/local-policy-decision-function.

<flow-header>

Usage

```
<lpdf-flows>
  <flow-header>
    <interface-name>interface-name</interface-name>
    <service-set-interface>service-set-interface</service-set-interface>
    <service-set-name>service-set-name</service-set-name>
    <current-number-flows>current-number-flows</current-number-flows>
    <high-water-flows>high-water-flows</high-water-flows>
  </flow-header>
</lpdf-flows>
```

Description Flows header information.

Contents <current-number-flows>—The number of currently active flows.

<high-water-flows>—High water-mark for number of flows.

<interface-name>—Interface or subscriber Name.

<service-set-interface>—PIC interface servicing the service-set.

<service-set-name>—Name of the service set.

<flows>

Usage

```
<lpdf-flows>
  <flows>
    <protocol>protocol</protocol>
    <source-address>source-address</source-address>
    <source-port>source-port</source-port>
    <destination-address>destination-address</destination-address>
    <destination-port>destination-port</destination-port>
    <application>application</application>
    <application-group>application-group</application-group>
  </flows>
</lpdf-flows>
```

Description Flows.

Contents <application>—Application.

<application-group>—Application group.

<destination-address>—Destination Address of the flow.

<destination-port>—Destination port of the flow.

<protocol>—Protocol of the flow.

<source-address>—Source address of the flow.

<source-port>—Source port of the flow.

<lpdf-flows>

Usage

```
<rpc-reply>
  <lpdf-flows>
    <flow-header>...</flow-header>
    <flows>...</flows>
  </lpdf-flows>
</rpc-reply>
```

Description LPDF flows.

Contents <flow-header>—Flows header information.

<flows>—Flows.

<lpdf-message>

Usage

```
<rpc-reply>
  <lpdf-message>
    <message>message</message>
  </lpdf-message>
</rpc-reply>
```

Description No documentation is available yet.

Contents <message>—Message to be displayed.

<lpdf-statistics>

Usage

```
<rpc-reply>
  <lpdf-statistics>
    <statistics-header>...</statistics-header>
    <statistics>...</statistics>
  </lpdf-statistics>
</rpc-reply>
```

Description LPDF statistics.

Contents <statistics>—Statistics.

<statistics-header>—No documentation is available yet.

<no-lpdf-statistics>

Usage

```
<rpc-reply>
  <no-lpdf-statistics>
    <interface>interface</interface>
  </no-lpdf-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface>—Interface name (ifl).

<statistics>

Usage

```
<lpdf-statistics>
  <statistics>
    <application-group>application-group</application-group>
    <application>application</application>
    <packets-in>packets-in</packets-in>
    <bytes-in>bytes-in</bytes-in>
    <packets-out>packets-out</packets-out>
    <bytes-out>bytes-out</bytes-out>
  </statistics>
</lpdf-statistics>
```

Description Statistics.

Contents <application>—Application.

<application-group>—Application group.

<bytes-in>—Bytes in.

<bytes-out>—Bytes out.

<packets-in>—Packets in.

<packets-out>—Packets out.

<statistics-header>

Usage

```
<lpdf-statistics>
  <statistics-header>
    <interface-name>interface-name</interface-name>
    <service-set-name>service-set-name</service-set-name>
    <service-set-interface>service-set-interface</service-set-interface>
  </statistics-header>
</lpdf-statistics>
```

Description No documentation is available yet.

Contents <interface-name>—Interface or subscriber Name.

<service-set-interface>—PIC interface servicing the service-set.

<service-set-name>—Name of the service set.

Summary of MIP Response Tags

This section lists JUNOS XML tags that contain operational information about MIP. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-mip. To review the DTD for the tags, see "DTD for MIP Response Tags" on page 2305.

<addr-pool>

Usage

```
<mip-home-agent-virtual-network | mip-home-agent-interface-network>
  <addr-pool>
    <start-addr>start-addr</start-addr>
    <end-addr>end-addr</end-addr>
  </addr-pool>
</mip-home-agent-virtual-network | mip-home-agent-interface-network>
```

Description Mobile IP ha address pool.

Contents <end-addr>—Ending address for the pool.

<start-addr>—Starting address for the pool.

<address-list>

Usage

```
<mip-home-agent-overview>
  <address-list>
    <address>address</address>
  </address-list>
</mip-home-agent-overview>
```

Description Mobile IP HA address list.

Contents <address>—Home agent address.

<mip-binding>

Usage

```
<mip-binding-information>
  <mip-binding>
    <mip-home-address>mip-home-address</mip-home-address>
    <mip-nai>mip-nai</mip-nai>
    <mip-home-agent>mip-home-agent</mip-home-agent>
    <mip-care-of-address>mip-care-of-address</mip-care-of-address>
    <lifetime-granted>lifetime-granted</lifetime-granted>
    <lifetime-remaining>lifetime-remaining</lifetime-remaining>
    <tunnel-type>tunnel-type</tunnel-type>
    <tunnel-id>tunnel-id</tunnel-id>
    <tunnel-source>tunnel-source</tunnel-source>
    <tunnel-destination>tunnel-destination</tunnel-destination>
    <identification>identification</identification>
    <revocation-support>revocation-support</revocation-support>
    <revocation-inform>revocation-inform</revocation-inform>
    <count>count</count>
    <state>state</state>
    <session-id>session-id</session-id>
  </mip-binding>
</mip-binding-information>
```

Description No documentation is available yet.

Contents <count>—Mobile IP Binding Count.

<identification>—Mobile IP identification.

<lifetime-granted>—Mobile IP Registration Lifetime Granted by HA.

<lifetime-remaining>—Mobile IP Lifetime remaining for mobile node to re-register.

<mip-care-of-address>—Mobile IP care-of-address.

<mip-home-address>—Mobile node's home address.

<mip-home-agent>—Mobile node's home agent address.

<mip-nai>—Mobile IP network access identifier.

<revocation-inform>—Mobile IP revocation inform to MN.

<revocation-support>—Mobile IP revocation support.

<session-id>—Mobile IP binding session ID.

<state>—Mobile IP binding state.

<tunnel-destination>—Mobile IP tunnel destination.

<tunnel-id>—Mobile IP tunnel ID.

<tunnel-source>—Mobile IP tunnel source.

<tunnel-type>—Mobile IP tunnel type.

<mip-binding-information>

Usage

```
<rpc-reply>
  <mip-binding-information>
    <mip-binding>...</mip-binding>
  </mip-binding-information>
</rpc-reply>
```

Description Mobile IP Binding information.

Contents <mip-binding>—No documentation is available yet.

<mip-error>

Usage

```
<rpc-reply>
  <mip-error>
    <mip-error-message>mip-error-message</mip-error-message>
  </mip-error>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mip-error-message>—MIP error message.

<mip-fa>

Usage

```
<mip-fa-information>
  <mip-fa>
    <mip-fa-status>mip-fa-status</mip-fa-status>
    <mip-fa-max-pending-request>mip-fa-max-pending-request
                </mip-fa-max-pending-request>
    <mip-fa-request-timeout>mip-fa-request-timeout</mip-fa-request-timeout>
    <mip-fa-registration-required>mip-fa-registration-required
                </mip-fa-registration-required>
    <mip-fa-registration-lifetime>mip-fa-registration-lifetime
                </mip-fa-registration-lifetime>
    <mip-fa-coa>mip-fa-coa</mip-fa-coa>
    <mip-fa-serice-enabled>mip-fa-serice-enabled</mip-fa-serice-enabled>
    <mip-fa-reverse-tunnel>mip-fa-reverse-tunnel</mip-fa-reverse-tunnel>
  </mip-fa>
</mip-fa-information>
```

Description Mobile IP foreign agent information.

Contents <mip-fa-coa>—Mobile IP foreign agent care-of-address's used.

<mip-fa-max-pending-request>—Mobile IP foreign agent maximum pending request.

<mip-fa-registration-lifetime>—Mobile IP foreign agent registration lifetime.

<mip-fa-registration-required>—Mobile foreign agent registration required flag.

<mip-fa-request-timeout>—Mobile IP foreign agent request timeout.

<mip-fa-reverse-tunnel>—Mobile IP foreign agent reverse tunnel.

<mip-fa-serice-enabled>—Mobile IP foreign agent enabled on.

<mip-fa-status>—Mobile IP foreign agent status.

<mip-fa-information>

Usage

```
<rpc-reply>
  <mip-fa-information>
    <mip-fa>...</mip-fa>
  </mip-fa-information>
</rpc-reply>
```

Description Mobile IP foreign agent information.

Contents <mip-fa>—Mobile IP foreign agent information.

<mip-home-agent-interface-network>

Usage

```
<mip-home-agent-interface-network-information>
  <mip-home-agent-interface-network>
    <interface>interface</interface>
    <mip-home-agent>mip-home-agent</mip-home-agent>
    <registration-lifetime>registration-lifetime</registration-lifetime>
    <time-tolerance>time-tolerance</time-tolerance>
    <addr-pool>...</addr-pool>
    <number-of-mn>number-of-mn</number-of-mn>
    <mip-home-address>mip-home-address</mip-home-address>
    <range>range</range>
    <mip-nai>mip-nai</mip-nai>
    <mip-care-of-address>mip-care-of-address</mip-care-of-address>
    <lifetime-granted>lifetime-granted</lifetime-granted>
    <lifetime-remaining>lifetime-remaining</lifetime-remaining>
  </mip-home-agent-interface-network>
</mip-home-agent-interface-network-information>
```

Description Mobile IP interface-network information.

Contents <addr-pool>—Mobile IP ha address pool.

<interface>—Mobile IP Home agent interface.

<lifetime-granted>—Mobile IP Registration Lifetime Granted by HA.

<lifetime-remaining>—Mobile IP Lifetime remaining for mobile node to re-register.

<mip-care-of-address>—Mobile IP care-of-address.

<mip-home-address>—Mobile node's home address.

<mip-home-agent>—Mobile node's home agent address.

<mip-nai>—Mobile IP network access identifier.

<number-of-mn>—Mobile IP number of MNs.

<range>—Mobile IP ha valid address range .

<registration-lifetime>—Mobile IP Registration lifetime.

<time-tolerance>—Mobile IP time tolerance.

<mip-home-agent-interface-network-information>

Usage

```
<rpc-reply>
  <mip-home-agent-interface-network-information>
    <mip-home-agent-interface-network>...</mip-home-agent-interface-network>
  </mip-home-agent-interface-network-information>
</rpc-reply>
```

Description Mobile IP home-agent interface-network information.

Contents <mip-home-agent-interface-network>—Mobile IP interface-network information.

<mip-home-agent-overview>

Usage

```
<mip-home-agent-overview-information>
  <mip-home-agent-overview>
    <status>status</status>
    <service-enabled-on>...</service-enabled-on>
    <address-list>...</address-list>
    <authentication>authentication</authentication>
  </mip-home-agent-overview>
</mip-home-agent-overview-information>
```

Description No documentation is available yet.

Contents <address-list>—Mobile IP HA address list.

<authentication>—Mobile IP Authentication.

<service-enabled-on>—Mobile IP HA enabled interfaces.

<status>—Mobile IP HA status.

<mip-home-agent-overview-information>

Usage

```
<rpc-reply>
  <mip-home-agent-overview-information>
    <mip-home-agent-overview>...</mip-home-agent-overview>
  </mip-home-agent-overview-information>
</rpc-reply>
```

Description Mobile IP home-agent overview.

Contents <mip-home-agent-overview>—No documentation is available yet.

<mip-home-agent-traffic>

Usage

```
<mip-home-agent-traffic-information>
  <mip-home-agent-traffic>
    <request-received>request-received</request-received>
    <request-forwarded>request-forwarded</request-forwarded>
    <request-denied>request-denied</request-denied>
    <replies-forwarded>replies-forwarded</replies-forwarded>
    <unspecified>unspecified</unspecified>
    <administrative-prohibited>administrative-prohibited
                </administrative-prohibited>
    <no-resource>no-resource</no-resource>
    <bad-request>bad-request</bad-request>
    <too-many-bindings>too-many-bindings</too-many-bindings>
    <unknown-ha>unknown-ha</unknown-ha>
    <id-mismatch>id-mismatch</id-mismatch>
    <unavailable-reverse-tunnel>unavailable-reverse-tunnel
                </unavailable-reverse-tunnel>
    <unavailable-encapsulation>unavailable-encapsulation
                </unavailable-encapsulation>
    <failed-mn>failed-mn</failed-mn>
    <failed-fa>failed-fa</failed-fa>
  </mip-home-agent-traffic>
</mip-home-agent-traffic-information>
```

Description Mobile IP violation information in specific.

Contents <administrative-prohibited>—Administrative prohibited.

<bad-request>—Bad request form.

<failed-fa>—FA aunthentication failed.

<failed-mn>—Authentication failed mobile node.

<id-mismatch>—ID mismatch.

<no-resource>—No resource.

<replies-forwarded>—Registration replies forwarded.

<request-denied>—Registration request denied.

<request-forwarded>—Registration request forwarded.

<request-received>—Registration request received.

<too-many-bindings>—Too many Binding.

<unavailable-encapsulation>—Unavailable encapsulation.

<unavailable-reverse-tunnel>—Unavailable reverse tunnel.

<unknown-ha>—Unknown HA.

<unspecified>—Unspecified.

<mip-home-agent-traffic-information>

Usage
```
<rpc-reply>
  <mip-home-agent-traffic-information>
    <mip-home-agent-traffic>...</mip-home-agent-traffic>
  </mip-home-agent-traffic-information>
</rpc-reply>
```

Description Mobile IP HA traffic information.

Contents <mip-home-agent-traffic>—Mobile IP violation information in specific.

<mip-home-agent-virtual-network>

Usage
```
<mip-home-agent-virtual-network-information>
  <mip-home-agent-virtual-network>
    <mip-home-agent>mip-home-agent</mip-home-agent>
    <registration-lifetime>registration-lifetime</registration-lifetime>
    <time-tolerance>time-tolerance</time-tolerance>
    <addr-pool>...</addr-pool>
    <number-of-mn>number-of-mn</number-of-mn>
    <mip-home-address>mip-home-address</mip-home-address>
    <mip-nai>mip-nai</mip-nai>
    <mip-care-of-address>mip-care-of-address</mip-care-of-address>
    <lifetime-granted>lifetime-granted</lifetime-granted>
    <lifetime-remaining>lifetime-remaining</lifetime-remaining>
  </mip-home-agent-virtual-network>
</mip-home-agent-virtual-network-information>
```

Description Mobile IP virtual-network information.

Contents <addr-pool>—Mobile IP ha address pool.

<lifetime-granted>—Mobile IP Registration Lifetime Granted by HA.

<lifetime-remaining>—Mobile IP Lifetime remaining for mobile node to re-register.

<mip-care-of-address>—Mobile IP care-of-address.

<mip-home-address>—Mobile node's home address.

<mip-home-agent>—Mobile node's home agent address.

<mip-nai>—Mobile IP network access identifier.

<number-of-mn>—Mobile IP number of MNs.

<registration-lifetime>—Mobile IP Registration lifetime.

<time-tolerance>—Mobile IP time tolerance.

<mip-home-agent-virtual-network-information>

Usage

```
<rpc-reply>
  <mip-home-agent-virtual-network-information>
    <mip-home-agent-virtual-network>...</mip-home-agent-virtual-network>
  </mip-home-agent-virtual-network-information>
</rpc-reply>
```

Description Mobile IP home-agent virtual-network information.

Contents <mip-home-agent-virtual-network>—Mobile IP virtual-network information.

<mip-memory>

Usage

```
<mip-memory-information>
  <mip-memory>
    <mip-memory-size>mip-memory-size</mip-memory-size>
    <mip-memory-file-name>mip-memory-file-name</mip-memory-file-name>
    <mip-memory-line-number>mip-memory-line-number</mip-memory-line-number>
    <mip-memory-allocated-memory>mip-memory-allocated-memory
                </mip-memory-allocated-memory>
  </mip-memory>
</mip-memory-information>
```

Description Mobile IP memory information in specific.

Contents <mip-memory-allocated-memory>—Allocated memory.

<mip-memory-file-name>—File Name.

<mip-memory-line-number>—Line number.

<mip-memory-size>—Total memory size.

<mip-memory-information>

Usage

```
<rpc-reply>
  <mip-memory-information>
    <mip-memory>...</mip-memory>
  </mip-memory-information>
</rpc-reply>
```

Description Mobile IP memory information.

Contents <mip-memory>—Mobile IP memory information in specific.

<mip-statistics-information>

Usage

```
<rpc-reply>
  <mip-statistics-information>
    <registration-request-received>registration-request-received
                </registration-request-received>
    <registration-request-accepted>registration-request-accepted
                </registration-request-accepted>
    <registration-request-rejected>registration-request-rejected
                </registration-request-rejected>
  </mip-statistics-information>
</rpc-reply>
```

Description Statistics from Mobile IP.

Contents <registration-request-accepted>—Registration request accepted.

<registration-request-received>—Registration request received.

<registration-request-rejected>—Registration request rejected.

<mip-traffic>

Usage

```
<mip-traffic-information>
  <mip-traffic>
    <request-received>request-received</request-received>
    <request-forwarded>request-forwarded</request-forwarded>
    <request-denied>request-denied</request-denied>
    <replies-received>replies-received</replies-received>
    <replies-forwarded>replies-forwarded</replies-forwarded>
    <replies-denied>replies-denied</replies-denied>
    <unspecified>unspecified</unspecified>
    <ha-unreachable>ha-unreachable</ha-unreachable>
    <administrative-prohibited>administrative-prohibited
                </administrative-prohibited>
    <no-resource>no-resource</no-resource>
    <bad-lifetime>bad-lifetime</bad-lifetime>
    <bad-request>bad-request</bad-request>
    <unavailable-encapsulation>unavailable-encapsulation
                </unavailable-encapsulation>
    <unavailable-reverse-tunnel>unavailable-reverse-tunnel
                </unavailable-reverse-tunnel>
    <failed-mn>failed-mn</failed-mn>
    <failed-ha>failed-ha</failed-ha>
    <unknown-challenge>unknown-challenge</unknown-challenge>
    <missing-challenge>missing-challenge</missing-challenge>
    <stale-challenge>stale-challenge</stale-challenge>
  </mip-traffic>
</mip-traffic-information>
```

Description Mobile IP violation information in specific.

Contents <administrative-prohibited>—Administrative prohibited.

<bad-lifetime>—Bad lifetime.

<bad-request>—Bad request form.

<failed-ha>—Authentication failed HA.

<failed-mn>—Authentication failed mobile node.

<ha-unreachable>—HA unreachable.

<missing-challenge>—Missing challenge.

<no-resource>—No resource.

<replies-denied>—Registration replies denied.

<replies-forwarded>—Registration replies forwarded.

<replies-received>—Registration replies received.

<request-denied>—Registration request denied.

<request-forwarded>—Registration request forwarded.

<request-received>—Registration request received.

<stale-challenge>—Stale challenge.

<unavailable-encapsulation>—Unavailable encapsulation.

<unavailable-reverse-tunnel>—Unavailable reverse tunnel.

<unknown-challenge>—Unknown challenge.

<unspecified>—Unspecified.

<mip-traffic-information>

Usage
```
<rpc-reply>
  <mip-traffic-information>
    <mip-traffic>...</mip-traffic>
  </mip-traffic-information>
</rpc-reply>
```

Description Mobile IP traffic information.

Contents <mip-traffic>—Mobile IP violation information in specific.

<mip-tunnel>

Usage
```
<mip-tunnel-information>
  <mip-tunnel>
    <mip-tunnel-source>mip-tunnel-source</mip-tunnel-source>
    <mip-tunnel-destination>mip-tunnel-destination</mip-tunnel-destination>
    <mip-tunnel-type>mip-tunnel-type</mip-tunnel-type>
  </mip-tunnel>
</mip-tunnel-information>
```

Description Mobile IP tunnel information in specific.

Contents <mip-tunnel-destination>—Tunnel destination address.

<mip-tunnel-source>—Tunnel source address.

<mip-tunnel-type>—Tunnel type.

<mip-tunnel-information>

Usage

```
<rpc-reply>
  <mip-tunnel-information>
    <mip-tunnel>...</mip-tunnel>
  </mip-tunnel-information>
</rpc-reply>
```

Description Mobile IP tunnel information.

Contents <mip-tunnel>—Mobile IP tunnel information in specific.

<mip-violation>

Usage

```
<mip-violation-information>
  <mip-violation>
    <mip-nai>mip-nai</mip-nai>
    <mip-home-address>mip-home-address</mip-home-address>
    <mip-violation-code>mip-violation-code</mip-violation-code>
    <mip-violation-time>mip-violation-time</mip-violation-time>
    <mip-violation-spi>mip-violation-spi</mip-violation-spi>
    <mip-violation-error-code>mip-violation-error-code</mip-violation-error-code>
    <mip-violation-reason>mip-violation-reason</mip-violation-reason>
    <mip-violation-count-per-peer>mip-violation-count-per-peer
                </mip-violation-count-per-peer>
    <mip-violation-totol-count>mip-violation-totol-count
                </mip-violation-totol-count>
  </mip-violation>
</mip-violation-information>
```

Description Mobile IP violation information.

Contents <mip-home-address>—Mobile node's home address.

<mip-nai>—Mobile IP network access identifier.

<mip-violation-code>—Mobile IP violation code.

<mip-violation-count-per-peer>—Count of violation done by a peer.

<mip-violation-error-code>—Mobile IP violation error code.

<mip-violation-reason>—Violation code reason.

<mip-violation-spi>—SPI value.

<mip-violation-time>—Time of last violation done.

<mip-violation-totol-count>—Total violation count.

<mip-violation-information>

Usage

```
<rpc-reply>
  <mip-violation-information>
    <mip-violation>...</mip-violation>
  </mip-violation-information>
</rpc-reply>
```

Description Mobile IP violation information.

Contents <mip-violation>—Mobile IP violation information.

<mip-visitor>

Usage

```
<mip-visitor-information>
  <mip-visitor>
    <mip-nai>mip-nai</mip-nai>
    <mip-home-address>mip-home-address</mip-home-address>
    <mip-home-agent>mip-home-agent</mip-home-agent>
    <mip-care-of-address>mip-care-of-address</mip-care-of-address>
    <mip-visitor-time-requested>mip-visitor-time-requested
                </mip-visitor-time-requested>
    <mip-visitor-time-alloted>mip-visitor-time-alloted</mip-visitor-time-alloted>
    <mip-visitor-time-remaining>mip-visitor-time-remaining
                </mip-visitor-time-remaining>
    <mip-visitor-count>mip-visitor-count</mip-visitor-count>
    <mip-visitor-pending-count>mip-visitor-pending-count
                </mip-visitor-pending-count>
  </mip-visitor>
</mip-visitor-information>
```

Description Mobile IP visitor information.

Contents <mip-care-of-address>—Mobile IP care-of-address.

<mip-home-address>—Mobile node's home address.

<mip-home-agent>—Mobile node's home agent address.

<mip-nai>—Mobile IP network access identifier.

<mip-visitor-count>—Mobile IP visitor count.

<mip-visitor-pending-count>—Mobile IP pending visitor count.

<mip-visitor-time-alloted>—Mobile IP registration lifetime alloted.

<mip-visitor-time-remaining>—Mobile IP registration lifetime remaining.

<mip-visitor-time-requested>—Mobile IP registration lifetime requested.

<mip-visitor-information>

Usage
```
<rpc-reply>
  <mip-visitor-information>
    <mip-visitor>...</mip-visitor>
  </mip-visitor-information>
</rpc-reply>
```

Description Mobile IP visitor information.

Contents <mip-visitor>—Mobile IP visitor information.

<mip-wimax-release>

Usage
```
<mip-wimax-release-information>
  <mip-wimax-release>
    <release>release</release>
  </mip-wimax-release>
</mip-wimax-release-information>
```

Description No documentation is available yet.

Contents <release>—Show WiMAX release supported by Mobile IP.

<mip-wimax-release-information>

Usage
```
<rpc-reply>
  <mip-wimax-release-information>
    <mip-wimax-release>...</mip-wimax-release>
  </mip-wimax-release-information>
</rpc-reply>
```

Description WiMAX release supported by Mobile IP.

Contents <mip-wimax-release>—No documentation is available yet.

<service-enabled-on>

Usage
```
<mip-home-agent-overview>
  <service-enabled-on>
    <interface-name>interface-name</interface-name>
  </service-enabled-on>
</mip-home-agent-overview>
```

Description Mobile IP HA enabled interfaces.

Contents <interface-name>—Home agent address.

Summary of MSP Response Tags

This section lists JUNOS XML tags that contain operational information about MSP. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-mspinfo. To review the DTD for the tags, see "DTD for MSP Response Tags" on page 2311.

<mspinfo-raw-output>

Usage

```
<rpc-reply>
  <mspinfo-raw-output>
    <interface-name>interface-name</interface-name>
    <raw-output>raw-output</raw-output>
  </mspinfo-raw-output>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-name>—Name of the adaptive services interface.

<raw-output>—Raw Output Field.

Summary of MPLS OAM ResponseTags

This section lists JUNOS XML tags that contain information about the MPLS OAM response. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-mplsoamd. To review the DTD for the tags, see "DTD for MPLS OAM Response Tags" on page 2301.

<fec>

Usage
```
<rpc-reply>
  <fec>
    <fec-prefix>fec-prefix</fec-prefix>
  </fec>
</rpc-reply>
```

Description No documentation is available yet.

Contents <fec-prefix>—No documentation is available yet.

<instance>

Usage
```
<rpc-reply>
  <instance>
    <count>count</count>
  </instance>
</rpc-reply>
```

Description No documentation is available yet.

Contents <count>—No documentation is available yet.

<last-trace-time>

Usage
```
<rpc-reply>
  <last-trace-time>
    <date-time>date-time</date-time>
  </last-trace-time>
</rpc-reply>
```

Description No documentation is available yet.

Contents <date-time>—No documentation is available yet.

<multipath-information>

Usage

```
<rpc-reply>
  <multipath-information>
    <multipath-type>multipath-type</multipath-type>
    <address-range-index>address-range-index</address-range-index>
    <low-address>low-address</low-address>
    <high-address>high-address</high-address>
  </multipath-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <address-range-index>—No documentation is available yet.

<high-address>—No documentation is available yet.

<low-address>—No documentation is available yet.

<multipath-type>—No documentation is available yet.

<next-scheduled-trace>

Usage

```
<rpc-reply>
  <next-scheduled-trace>
    <timer-expiry>timer-expiry</timer-expiry>
  </next-scheduled-trace>
</rpc-reply>
```

Description No documentation is available yet.

Contents <timer-expiry>—No documentation is available yet.

<options>

Usage

```
<rpc-reply>
  <options>
    <probe-ttl>probe-ttl</probe-ttl>
    <probe-retries>probe-retries</probe-retries>
    <probe-wait>probe-wait</probe-wait>
    <probe-paths>probe-paths</probe-paths>
    <probe-source>probe-source</probe-source>
    <probe-destination>probe-destination</probe-destination>
    <probe-exp>probe-exp</probe-exp>
    <probe-fanout>probe-fanout</probe-fanout>
  </options>
</rpc-reply>
```

Description No documentation is available yet.

Contents <probe-destination>—No documentation is available yet.

<probe-exp>—No documentation is available yet.

<probe-fanout>—No documentation is available yet.

<probe-paths>—No documentation is available yet.

<probe-retries>—No documentation is available yet.

<probe-source>—No documentation is available yet.

<probe-ttl>—No documentation is available yet.

<probe-wait>—No documentation is available yet.

<probe-options>

Usage

```
<rpc-reply>
  <probe-options>
    <probe-ttl>probe-ttl</probe-ttl>
    <probe-retries>probe-retries</probe-retries>
    <probe-wait>probe-wait</probe-wait>
    <probe-paths>probe-paths</probe-paths>
    <probe-source>probe-source</probe-source>
    <probe-destination>probe-destination</probe-destination>
    <probe-exp>probe-exp</probe-exp>
    <probe-fanout>probe-fanout</probe-fanout>
  </probe-options>
</rpc-reply>
```

Description No documentation is available yet.

Contents <probe-destination>—No documentation is available yet.

<probe-exp>—No documentation is available yet.

<probe-fanout>—No documentation is available yet.

<probe-paths>—No documentation is available yet.

<probe-retries>—No documentation is available yet.

<probe-source>—No documentation is available yet.

<probe-ttl>—No documentation is available yet.

<probe-wait>—No documentation is available yet.

<scan-status>

Usage

```
<rpc-reply>
  <scan-status>
    <status>status</status>
  </scan-status>
</rpc-reply>
```

Description No documentation is available yet.

Contents <status>—No documentation is available yet.

<tracelsp-label>

Usage

```
<rpc-reply>
  <tracelsp-label>
    <label-value>label-value</label-value>
    <label-depth>label-depth</label-depth>
    <label-protocol>label-protocol</label-protocol>
  </tracelsp-label>
</rpc-reply>
```

Description No documentation is available yet.

Contents <label-depth>—No documentation is available yet.

<label-protocol>—No documentation is available yet.

<label-value>—No documentation is available yet.

<tracelsp-node>

Usage

```
<rpc-reply>
  <tracelsp-node>
    <depth>depth</depth>
    <label-value>label-value</label-value>
    <label-protocol>label-protocol</label-protocol>
    <address>address</address>
    <parent>parent</parent>
    <response-time>response-time</response-time>
    <return-code>return-code</return-code>
    <multipath-type>multipath-type</multipath-type>
    <sender-timestamp>sender-timestamp</sender-timestamp>
    <receiver-timestamp>receiver-timestamp</receiver-timestamp>
    <status>status</status>
    <path-index>path-index</path-index>
    <path-status>path-status</path-status>
    <probe-destination>probe-destination</probe-destination>
    <mtu>mtu</mtu>
    <interface>interface</interface>
  </tracelsp-node>
</rpc-reply>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<depth>—No documentation is available yet.

<interface>—No documentation is available yet.

<label-protocol>—No documentation is available yet.

<label-value>—No documentation is available yet.

<mtu>—No documentation is available yet.

<multipath-type>—No documentation is available yet.

<parent>—No documentation is available yet.

<path-index>—No documentation is available yet.

<path-status>—No documentation is available yet.

<probe-destination>—No documentation is available yet.

<receiver-timestamp>—No documentation is available yet.

<response-time>—No documentation is available yet.

<return-code>—No documentation is available yet.

<sender-timestamp>—No documentation is available yet.

<status>—No documentation is available yet.

Summary of Passive Monitoring Interfaces Response Tags

This section lists JUNOS XML tags that contain operational information about passive monitoring interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-passive-monitoring. To review the DTD for the tags, see “DTD for Passive Monitoring Interfaces Response Tags” on page 2313.

<error-information>

Usage

```
<passive-monitoring-information>
  <error-information>
    <error-packets-dropped-no-memory>error-packets-dropped-no-memory
                </error-packets-dropped-no-memory>
    <error-packets-dropped-not-ip>error-packets-dropped-not-ip
                </error-packets-dropped-not-ip>
    <error-packets-dropped-not-ipv4>error-packets-dropped-not-ipv4
                </error-packets-dropped-not-ipv4>
    <error-packets-too-small>error-packets-too-small</error-packets-too-small>
    <error-allocation-failures>error-allocation-failures
                </error-allocation-failures>
    <error-free-failures>error-free-failures</error-free-failures>
    <error-free-list-failures>error-free-list-failures</error-free-list-failures>
    <error-memory-warning>error-memory-warning</error-memory-warning>
    <error-memory-overload>error-memory-overload</error-memory-overload>
    <error-packets-per-second-overload>error-packets-per-second-overload
                </error-packets-per-second-overload>
    <error-bytes-per-second-overload>error-bytes-per-second-overload
                </error-bytes-per-second-overload>
  </error-information>
</passive-monitoring-information>
```

Description Passive monitoring error information.

Contents

<error-allocation-failures>—Number of failed attempts to allocate memory.

<error-bytes-per-second-overload>—Whether the number of incoming bytes exceeds the designed per-second limit.

<error-free-failures>—Number of failed attempts to free memory.

<error-free-list-failures>—Number of operations that failed because free list memory is exhausted.

<error-memory-overload>—Whether memory is exhausted.

<error-memory-warning>—Reached low memory condition.

<error-packets-dropped-no-memory>—Number of packets dropped because memory is exhausted.

<error-packets-dropped-not-ip>—Number of packets dropped because they are not IP.

<error-packets-dropped-not-ipv4>—Number of packets dropped because they are not IPv4.

<error-packets-per-second-overload>—Whether the number of incoming packets exceeds the designed per-second limit.

<error-packets-too-small>—Number of packets dropped because their header is too small.

<flow-information>

Usage

```
<passive-monitoring-information>
  <flow-information>
    <flow-packets>flow-packets</flow-packets>
    <flow-bytes>flow-bytes</flow-bytes>
    <flow-packets-ten-second-rate>flow-packets-ten-second-rate
                </flow-packets-ten-second-rate>
    <flow-bytes-ten-second-rate>flow-bytes-ten-second-rate
                </flow-bytes-ten-second-rate>
    <active-flows>active-flows</active-flows>
    <flows>flows</flows>
    <flows-exported>flows-exported</flows-exported>
    <flow-packets-exported>flow-packets-exported</flow-packets-exported>
    <flows-expired>flows-expired</flows-expired>
    <flows-aged>flows-aged</flows-aged>
  </flow-information>
</passive-monitoring-information>
```

Description Passive monitoring flow information.

Contents <active-flows>—Active flows.

<flow-bytes>—Flow bytes.

<flow-bytes-ten-second-rate>—Flow bytes 10-second rate.

<flow-packets>—Flow packets.

<flow-packets-exported>—Flows packets exported.

<flow-packets-ten-second-rate>—Flow packets 10-second rate.

<flows>—Flows.

<flows-aged>—Flows active timed out.

<flows-expired>—Flows inactive timed out.

<flows-exported>—Flows exported.

<memory-information>

Usage

```
<passive-monitoring-information>
  <memory-information>
    <allocation-count>allocation-count</allocation-count>
    <free-count>free-count</free-count>
    <maximum-allocated>maximum-allocated</maximum-allocated>
    <allocations-per-second>allocations-per-second</allocations-per-second>
    <frees-per-second>frees-per-second</frees-per-second>
    <memory-used>memory-used</memory-used>
    <memory-free>memory-free</memory-free>
  </memory-information>
</passive-monitoring-information>
```

Description Passive monitoring memory utilization.

Contents <allocation-count>—Flow record allocations.

<allocations-per-second>—Flow record allocations per second.

<free-count>—Flow record frees.

<frees-per-second>—Flow record frees per second.

<maximum-allocated>—Maximum flow records allocated.

<memory-free>—Total memory free.

<memory-used>—Total memory used.

<passive-monitoring-information>

Usage

```
<rpc-reply>
  <passive-monitoring-information>
    <interface-name>interface-name</interface-name>
    <local-index>local-index</local-index>
    <pic-status>pic-status</pic-status>
    <usage-information>...</usage-information>
    <memory-information>...</memory-information>
    <flow-information>...</flow-information>
    <error-information>...</error-information>
    <status-information>...</status-information>
  </passive-monitoring-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<error-information>—Passive monitoring error information.

<flow-information>—Passive monitoring flow information.

<interface-name>—Physical interface name.

<local-index>—Local physical interface index.

<memory-information>—Passive monitoring memory utilization.

<pic-status>—Current interface state.

<status-information>—Passive monitoring status information.

<usage-information>—Passive monitoring CPU utilization.

<status-information>

Usage

```
<passive-monitoring-information>
  <status-information>
    <status-group-index>status-group-index</status-group-index>
    <status-export-interval>status-export-interval</status-export-interval>
    <status-export-format>status-export-format</status-export-format>
    <status-proto>status-proto</status-proto>
    <status-engine-type>status-engine-type</status-engine-type>
    <status-engine-id>status-engine-id</status-engine-id>
    <status-route-record-count>status-route-record-count
            </status-route-record-count>
    <status-ifl-snmp-map-count>status-ifl-snmp-map-count
            </status-ifl-snmp-map-count>
    <status-as-count>status-as-count</status-as-count>
    <status-monitor-time-set>status-monitor-time-set</status-monitor-time-set>
    <status-monitor-config-set>status-monitor-config-set
            </status-monitor-config-set>
    <status-monitor-route-record-set>status-monitor-route-record-set
            </status-monitor-route-record-set>
    <status-monitor-ifl-snmp-set>status-monitor-ifl-snmp-set
            </status-monitor-ifl-snmp-set>
  </status-information>
</passive-monitoring-information>
```

Description Passive monitoring status information.

Contents <status-as-count>—Autonomous system number count.

<status-engine-id>—Engine ID.

<status-engine-type>—Engine type.

<status-export-format>—Export format.

<status-export-interval>—Export interval, in seconds.

<status-group-index>—Group index.

<status-ifl-snmp-map-count>—Local index to SNMP index count.

<status-monitor-config-set>—Configuration set on PIC.

<status-monitor-ifl-snmp-set>—Local index to SNMP index map set on PIC.

<status-monitor-route-record-set>—Route records set on PIC.

<status-monitor-time-set>—Time set on PIC.

<status-proto>—Protocol.

<status-route-record-count>—Route record count.

<usage-information>

Usage

```
<passive-monitoring-information>
  <usage-information>
    <uptime>uptime</uptime>
    <inttime>inttime</inttime>
    <five-second-load>five-second-load</five-second-load>
    <one-minute-load>one-minute-load</one-minute-load>
  </usage-information>
</passive-monitoring-information>
```

Description Passive monitoring CPU utilization.

Contents <five-second-load>—5-second load.

<inttime>—CPU interrupt time, in microseconds.

<one-minute-load>—1-minute load.

<uptime>—CPU uptime, in milliseconds.

Summary of Pragmatic General Multicast Response Tags

This section lists JUNOS XML tags that contain operational information about the Pragmatic General Multicast (PGM) protocol. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-pgm. To review the DTD for the tags, see "DTD for PGM Response Tags" on page 2317.

<errors>

Usage

```
<packet-counters>
  <errors>
    <short-pgm-header>short-pgm-header</short-pgm-header>
    <bad-checksum>bad-checksum</bad-checksum>
    <zero-checksum>zero-checksum</zero-checksum>
    <bad-tsdu-length>bad-tsdu-length</bad-tsdu-length>
    <bad-spm-length>bad-spm-length</bad-spm-length>
    <bad-spm-family>bad-spm-family</bad-spm-family>
    <bad-nak-length>bad-nak-length</bad-nak-length>
    <bad-nak-family>bad-nak-family</bad-nak-family>
    <nak-unknown-tsi>nak-unknown-tsi</nak-unknown-tsi>
    <nak-throttled>nak-throttled</nak-throttled>
    <bad-ncf-length>bad-ncf-length</bad-ncf-length>
    <bad-ncf-family>bad-ncf-family</bad-ncf-family>
    <ncf-unknown-tsi>ncf-unknown-tsi</ncf-unknown-tsi>
    <bad-rdata-length>bad-rdata-length</bad-rdata-length>
    <rdata-unknown-tsi>rdata-unknown-tsi</rdata-unknown-tsi>
    <odata-with-ra>odata-with-ra</odata-with-ra>
  </errors>
</packet-counters>
```

Description No documentation is available yet.

Contents

<bad-checksum>—No documentation is available yet.

<bad-nak-family>—No documentation is available yet.

<bad-nak-length>—No documentation is available yet.

<bad-ncf-family>—No documentation is available yet.

<bad-ncf-length>—No documentation is available yet.

<bad-rdata-length>—No documentation is available yet.

<bad-spm-family>—No documentation is available yet.

<bad-spm-length>—No documentation is available yet.

<bad-tsdu-length>—No documentation is available yet.

<nak-throttled>—No documentation is available yet.

<nak-unknown-tsi>—No documentation is available yet.

<ncf-unknown-tsi>—No documentation is available yet.

<odata-with-ra>—No documentation is available yet.

<rdata-unknown-tsi>—No documentation is available yet.

<short-pgm-header>—No documentation is available yet.

<zero-checksum>—No documentation is available yet.

<nak>

Usage

```
<packet-counters>
  <nak>
    <received>received</received>
    <sent>sent</sent>
  </nak>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<ncf>

Usage

```
<packet-counters>
  <ncf>
    <received>received</received>
    <sent>sent</sent>
  </ncf>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<nullnak>

Usage

```
<packet-counters>
  <nullnak>
    <received>received</received>
    <sent>sent</sent>
  </nullnak>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<other>

Usage

```
<packet-counters>
  <other>
    <received>received</received>
    <sent>sent</sent>
  </other>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<packet-counters>

Usage

```
<pgm-statistics-information>
  <packet-counters>
    <spm>...</spm>
    <poll>...</poll>
    <polr>...</polr>
    <rdata>...</rdata>
    <nak>...</nak>
    <nullnak>...</nullnak>
    <ncf>...</ncf>
    <spmr>...</spmr>
    <other>...</other>
    <errors>...</errors>
  </packet-counters>
</pgm-statistics-information>
```

Description No documentation is available yet.

Contents <errors>—No documentation is available yet.

<nak>—No documentation is available yet.

<ncf>—No documentation is available yet.

<nullnak>—No documentation is available yet.

<other>—No documentation is available yet.

<poll>—No documentation is available yet.

<polr>—No documentation is available yet.

<rdata>—No documentation is available yet.

<spm>—No documentation is available yet.

<spmr>—No documentation is available yet.

<pgm-nak-interface>

Usage

```
<pgm-spm-nak>
  <pgm-nak-interface>
    <pgm-nak-interface-name>pgm-nak-interface-name</pgm-nak-interface-name>
    <pgm-nak-interface-sender>pgm-nak-interface-sender</pgm-nak-interface-sender>
  </pgm-nak-interface>
</pgm-spm-nak>
```

Description No documentation is available yet.

Contents <pgm-nak-interface-name>—No documentation is available yet.

<pgm-nak-interface-sender>—No documentation is available yet.

<pgm-spm-information>

Usage

```
<rpc-reply>
  <pgm-spm-information>
    <pgm-spm-tsi>...</pgm-spm-tsi>
  </pgm-spm-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pgm-spm-tsi>—No documentation is available yet.

<pgm-spm-nak>

Usage

```
<pgm-spm-tsi>
  <pgm-spm-nak>
    <pgm-nak-sequence>pgm-nak-sequence</pgm-nak-sequence>
    <pgm-nak-source>pgm-nak-source</pgm-nak-source>
    <pgm-nak-group>pgm-nak-group</pgm-nak-group>
    <pgm-nak-interface>...</pgm-nak-interface>
  </pgm-spm-nak>
</pgm-spm-tsi>
```

Description No documentation is available yet.

Contents <pgm-nak-group>—No documentation is available yet.

<pgm-nak-interface>—No documentation is available yet.

<pgm-nak-sequence>—No documentation is available yet.

<pgm-nak-source>—No documentation is available yet.

<pgm-spm-tsi>

Usage

```
<pgm-spm-information>
  <pgm-spm-tsi>
    <pgm-spm-gsid>pgm-spm-gsid</pgm-spm-gsid>
    <pgm-spm-sport>pgm-spm-sport</pgm-spm-sport>
    <pgm-spm-seq>pgm-spm-seq</pgm-spm-seq>
    <pgm-spm-trail>pgm-spm-trail</pgm-spm-trail>
    <pgm-spm-lead>pgm-spm-lead</pgm-spm-lead>
    <pgm-spm-nla>pgm-spm-nla</pgm-spm-nla>
    <pgm-spm-nak>...</pgm-spm-nak>
  </pgm-spm-tsi>
</pgm-spm-information>
```

Description No documentation is available yet.

Contents <pgm-spm-gsid>—No documentation is available yet.

<pgm-spm-lead>—No documentation is available yet.

<pgm-spm-nak>—No documentation is available yet.

<pgm-spm-nla>—No documentation is available yet.

<pgm-spm-seq>—No documentation is available yet.

<pgm-spm-sport>—No documentation is available yet.

<pgm-spm-trail>—No documentation is available yet.

<pgm-statistics-information>

Usage

```
<rpc-reply>
  <pgm-statistics-information>
    <packet-counters>...</packet-counters>
  </pgm-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <packet-counters>—No documentation is available yet.

<poll>

Usage

```
<packet-counters>
  <poll>
    <received>received</received>
    <sent>sent</sent>
  </poll>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<polr>

Usage

```
<packet-counters>
  <polr>
    <received>received</received>
    <sent>sent</sent>
  </polr>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<rdata>

Usage

```
<packet-counters>
  <rdata>
    <received>received</received>
    <sent>sent</sent>
  </rdata>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<spm>

Usage

```
<packet-counters>
  <spm>
    <received>received</received>
    <sent>sent</sent>
  </spm>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

<spmr>

Usage

```
<packet-counters>
  <spmr>
    <received>received</received>
    <sent>sent</sent>
  </spmr>
</packet-counters>
```

Description No documentation is available yet.

Contents <received>—No documentation is available yet.

<sent>—No documentation is available yet.

Summary of Periodic Packet Management Response Tags

This section lists JUNOS XML tags that contain information about periodic packet management process. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ppm. To review the DTD for the tags, see "DTD for Periodic Packet Management Response Tag Elements" on page 2321.

<adjacency-data>

Usage

```
<ppm-adjacencies>
  <adjacency-data>
    <protocol>protocol</protocol>
    <adjacency-holdtime>adjacency-holdtime</adjacency-holdtime>
    <adjacency-interface-index>adjacency-interface-index
                </adjacency-interface-index>
    <adjacency-no-absorb/>
    <adjacency-no-refresh/>
    <adjacency-do-not-age/>
    <adjacency-hello-dropped/>
    <adjacency-distributed/>
    <adjacency-ospf-src-key>adjacency-ospf-src-key</adjacency-ospf-src-key>
    <adjacency-ospf-area-id>adjacency-ospf-area-id</adjacency-ospf-area-id>
    <adjacency-ospf-transit-area-id>adjacency-ospf-transit-area-id
                </adjacency-ospf-transit-area-id>
    <adjacency-ospf-routing-table-index>adjacency-ospf-routing-table-index
                </adjacency-ospf-routing-table-index>
    <adjacency-isis-level>adjacency-isis-level</adjacency-isis-level>
    <adjacency-isis-sysid>adjacency-isis-sysid</adjacency-isis-sysid>
    <adjacency-esis-type>adjacency-esis-type</adjacency-esis-type>
    <adjacency-bfd-discriminator>adjacency-bfd-discriminator
                </adjacency-bfd-discriminator>
    <adjacency-bfd-routing-table-index>adjacency-bfd-routing-table-index
                </adjacency-bfd-routing-table-index>
    <adjacency-ldp-source>adjacency-ldp-source</adjacency-ldp-source>
    <adjacency-ldp-routing-table-index>adjacency-ldp-routing-table-index
                </adjacency-ldp-routing-table-index>
    <adjacency-stp-source-key>adjacency-stp-source-key</adjacency-stp-source-key>
    <adjacency-cfm-source-key>adjacency-cfm-source-key</adjacency-cfm-source-key>
    <adjacency-pfe-handle>adjacency-pfe-handle</adjacency-pfe-handle>
    <adjacency-pfe-addr>adjacency-pfe-addr</adjacency-pfe-addr>
  </adjacency-data>
</ppm-adjacencies>
```

Description Information about an adjacency of the PPM process.

Contents

<adjacency-bfd-discriminator>—BFD discriminator.

<adjacency-bfd-routing-table-index>—BFD routing table index.

<adjacency-cfm-source-key>—CFM source key.

<adjacency-distributed>—Distributed flag.

<adjacency-do-not-age>—Do-not-age flag.

<adjacency-esis-type>—ES-IS type.

<adjacency-hello-dropped>—Dropped-hellos flag.

<adjacency-holdtime>—Delay after the last keepalive message received after which an adjacency is considered down.

<adjacency-interface-index>—Logical interface index.

<adjacency-isis-level>—IS-IS level.

<adjacency-isis-sysid>—IS-IS system ID.

<adjacency-ldp-routing-table-index>—LDP routing table index.

<adjacency-ldp-source>—LDP source.

<adjacency-no-absorb>—No-absorb flag.

<adjacency-no-refresh>—No-refresh flag.

<adjacency-ospf-area-id>—OSPF area ID.

<adjacency-ospf-routing-table-index>—OSPF routing table index.

<adjacency-ospf-src-key>—OSPF source key.

<adjacency-ospf-transit-area-id>—OSPF transit area ID.

<adjacency-pfe-addr>—Distribution address.

<adjacency-pfe-handle>—Distribution handle.

<adjacency-stp-source-key>— STP source key.

<protocol>—Protocol that connected to the PPM process.

<connection-data>

Usage

```
<ppm-connections>
  <connection-data>
    <protocol>protocol</protocol>
    <logical-system-id>logical-system-id</logical-system-id>
    <number-adjacencies>number-adjacencies</number-adjacencies>
    <number-transmissions>number-transmissions</number-transmissions>
  </connection-data>
</ppm-connections>
```

Description Information about a connection to the PPM process.

Contents <logical-system-id>—Logical system ID.

<number-adjacencies>—Number of adjacencies.

<number-transmissions>—Number of transmission entries.

<protocol>—Protocol that connected to the PPM process.

<interface-data>

Usage
```
<ppm-interfaces>
  <interface-data>
    <interface-key>interface-key</interface-key>
    <protocol>protocol</protocol>
    <interface-index>interface-index</interface-index>
    <interface-distributed/>
    <interface-pfe-handle>interface-pfe-handle</interface-pfe-handle>
    <interface-pfe-addr>interface-pfe-addr</interface-pfe-addr>
  </interface-data>
</ppm-interfaces>
```

Description Information about a interface of the PPM process.

Contents <interface-distributed>—Distributed flag.

<interface-index>—Logical interface index.

<interface-key>—Interface Key.

<interface-pfe-addr>—Distribution address.

<interface-pfe-handle>—Distribution handle.

<protocol>—Protocol that connected to the PPM process.

<ppm-adjacencies>

Usage
```
<rpc-reply>
  <ppm-adjacencies>
    <adjacency-data>...</adjacency-data>
    <total-adjacencies>total-adjacencies</total-adjacencies>
    <remote-adjacencies>remote-adjacencies</remote-adjacencies>
  </ppm-adjacencies>
</rpc-reply>
```

Description Information about one or more adjacencies of the periodic packet management process.

Contents <adjacency-data>—Information about an adjacency of the PPM process.

<remote-adjacencies>—Number of remote adjacencies.

<total-adjacencies>—Number of adjacencies.

<ppm-connections>

Usage

```
<rpc-reply>
  <ppm-connections>
    <connection-data>...</connection-data>
    <total-connections>total-connections</total-connections>
    <remote-connections>remote-connections</remote-connections>
  </ppm-connections>
</rpc-reply>
```

Description Information about one or more connections to the periodic packet management process.

Contents <connection-data>—Information about a connection to the PPM process.

<remote-connections>—Number of remote connections.

<total-connections>—Number of connections.

<ppm-interfaces>

Usage

```
<rpc-reply>
  <ppm-interfaces>
    <interface-data>...</interface-data>
    <total-interfaces>total-interfaces</total-interfaces>
    <remote-interfaces>remote-interfaces</remote-interfaces>
  </ppm-interfaces>
</rpc-reply>
```

Description Information about one or more interfaces of the periodic packet management process.

Contents <interface-data>—Information about a interface of the PPM process.

<remote-interfaces>—Number of remote interfaces.

<total-interfaces>—Number of interfaces.

<ppm-transmissions>

Usage

```
<rpc-reply>
  <ppm-transmissions>
    <transmission-data>...</transmission-data>
    <total-transmissions>total-transmissions</total-transmissions>
    <remote-transmissions>remote-transmissions</remote-transmissions>
  </ppm-transmissions>
</rpc-reply>
```

Description Information about one or more transmissions of the periodic packet management process.

Contents <remote-transmissions>—Number of remote transmissions.

<total-transmissions>—Number of transmissions.

<transmission-data>—Information about a transmission of the PPM process.

<transmission-data>

Usage

```
<ppm-transmissions>
  <transmission-data>
    <transmission-destination>transmission-destination</transmission-destination>
    <protocol>protocol</protocol>
    <transmission-interval>transmission-interval</transmission-interval>
    <transmission-distributed/>
    <transmission-pfe-handle>transmission-pfe-handle</transmission-pfe-handle>
    <transmission-pfe-addr>transmission-pfe-addr</transmission-pfe-addr>
  </transmission-data>
</ppm-transmissions>
```

Description Information about a transmission of the PPM process.

Contents <protocol>—Protocol that connected to the PPM process.

<transmission-destination>—Destination.

<transmission-distributed>—Distributed flag.

<transmission-interval>—Interval between transmissions.

<transmission-pfe-addr>—Distribution address.

<transmission-pfe-handle>—Distribution handle.

Summary of PPP Response Tags

This section lists JUNOS XML tags that contain information about the Point-to-Point Protocol (PPP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ppp. To review the DTD for the tags, see "DTD for PPP Response Tag Elements" on page 2325.

<assigned-address-list>

Usage
```
<ppp-address-pool-information>
  <assigned-address-list>
    <pool-address-assignment>...</pool-address-assignment>
  </assigned-address-list>
</ppp-address-pool-information>
```

Description List of addresses assigned in pool.

Contents <pool-address-assignment>—Assignment information for one address in the pool.

<ipcp-address>

Usage
```
<ppp-negotiated-options>
  <ipcp-address>
    <local-address>local-address</local-address>
    <remote-address>remote-address</remote-address>
  </ipcp-address>
</ppp-negotiated-options>
```

Description Negotiated IP address Internet Protocol Control Protocol option.

Contents <local-address>—Local interface address negotiated with remote peer.

<remote-address>—Destination address negotiated with remote peer.

<ipv6cp-interface-identifier>

Usage
```
<ppp-negotiated-options>
  <ipv6cp-interface-identifier>
    <local-interface-identifier>local-interface-identifier
                </local-interface-identifier>
    <remote-interface-identifier>remote-interface-identifier
                </remote-interface-identifier>
  </ipv6cp-interface-identifier>
</ppp-negotiated-options>
```

Description Negotiated Internet Protocol Version 6 Control Protocol interface identifier option.

Contents <local-interface-identifier>—Local interface identifier negotiated with remote peer.

<remote-interface-identifier>—Remote interface identifier negotiated with remote peer.

<lcp-authentication-protocol>

Usage
```
<ppp-negotiated-options>
  <lcp-authentication-protocol>
    <authentication-protocol-name>authentication-protocol-name
                </authentication-protocol-name>
    <authentication-algorithm>authentication-algorithm</authentication-algorithm>
  </lcp-authentication-protocol>
</ppp-negotiated-options>
```

Description Link Control Protocol authentication protocol option.

Contents <authentication-algorithm>—Authentication algorithm identifier.

<authentication-protocol-name>—Name of authentication protocol.

<lcp-endpoint-discriminator>

Usage
```
<ppp-negotiated-options>
  <lcp-endpoint-discriminator>
    <endpoint-discriminator-class>endpoint-discriminator-class
                </endpoint-discriminator-class>
    <endpoint-discriminator-identifier>endpoint-discriminator-identifier
                </endpoint-discriminator-identifier>
  </lcp-endpoint-discriminator>
</ppp-negotiated-options>
```

Description Link Control Protocol endpoint discriminator option.

Contents <endpoint-discriminator-class>—Endpoint discriminator class.

<endpoint-discriminator-identifier>—Endpoint discriminator identifier.

<lcp-multilink-header>

Usage
```
<ppp-negotiated-options>
  <lcp-multilink-header>
    <multilink-header-code>multilink-header-code</multilink-header-code>
    <multilink-header-suspendable-classes>multilink-header-suspendable-classes
                </multilink-header-suspendable-classes>
  </lcp-multilink-header>
</ppp-negotiated-options>
```

Description Link Control Protocol multilink header format option.

Contents <multilink-header-code>—Multilink header format code.

<multilink-header-suspendable-classes>—Number of suspendable classes.

<pool-address-assignment>

Usage

```
<assigned-address-list>
  <pool-address-assignment>
    <pool-address>pool-address</pool-address>
    <session-name>session-name</session-name>
    <pool-address-blocked/>
  </pool-address-assignment>
</assigned-address-list>
```

Description Assignment information for one address in the pool.

Contents <pool-address>—Address in pool.

<pool-address-blocked>—Address is already in use by a local interface.

<session-name>—PPP session name.

<pool-address-list>

Usage

```
<ppp-address-pool-information>
  <pool-address-list>
    <pool-address>pool-address</pool-address>
  </pool-address-list>
</ppp-address-pool-information>
```

Description List of addresses in pool.

Contents <pool-address>—Address in pool.

<pool-range>

Usage

```
<ppp-address-pool-information>
  <pool-range>
    <low-address>low-address</low-address>
    <high-address>high-address</high-address>
  </pool-range>
</ppp-address-pool-information>
```

Description Range of addresses in pool.

Contents <high-address>—High range of address pool.

<low-address>—Low range of address pool.

<ppp-address-pool-information>

Usage

```
<rpc-reply>
  <ppp-address-pool-information>
    <pool-name>pool-name</pool-name>
    <assigned-addresses>assigned-addresses</assigned-addresses>
    <configured-addresses>configured-addresses</configured-addresses>
    <pool-range>...</pool-range>
    <pool-address-list>...</pool-address-list>
    <assigned-address-list>...</assigned-address-list>
  </ppp-address-pool-information>
</rpc-reply>
```

Description PPP address pool information.

Contents <assigned-address-list>—List of addresses assigned in pool.

<assigned-addresses>—Number of assigned addresses.

<configured-addresses>—Number of configured addresses.

<pool-address-list>—List of addresses in pool.

<pool-name>—Name of pool from which addresses are assigned.

<pool-range>—Range of addresses in pool.

<ppp-auth-protocol-information>

Usage

```
<ppp-session>
  <ppp-auth-protocol-information>
    <ppp-state>ppp-state</ppp-state>
    <ppp-last-started>ppp-last-started</ppp-last-started>
    <ppp-last-completed>ppp-last-completed</ppp-last-completed>
    <ppp-auth-proto>ppp-auth-proto</ppp-auth-proto>
  </ppp-auth-protocol-information>
</ppp-session>
```

Description Authentication protocol information for PPP session.

Contents <ppp-auth-proto>—No documentation is available yet.

<ppp-last-completed>—Time when negotiation of the protocol last completedsuccessfully, in the format YYYY-MM-DD hh:mm:ss TZ (year,month, date, hour in 24-hour format, minute second, timezone).

<ppp-last-started>—Time when negotiation of the protocol last started, in theformat YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in24-hour format, minute second, time zone).

<ppp-state>—Protocol state.

<ppp-destination-profile>

Usage
```
<ppp-session-protocol-information>
  <ppp-destination-profile>
    <pool-name>pool-name</pool-name>
  </ppp-destination-profile>
</ppp-session-protocol-information>
```

Description Destination profile information.

Contents <pool-name>—Name of pool from which addresses are assigned.

<ppp-interface-information>

Usage
```
<rpc-reply>
  <ppp-interface-information>
    <interface-name>interface-name</interface-name>
    <ppp-session>...</ppp-session>
  </ppp-interface-information>
</rpc-reply>
```

Description PPP interface information.

Contents <interface-name>—Interface name.

<ppp-session>—PPP session.

<ppp-memory-statistics>

Usage
```
<ppp-statistics-information>
  <ppp-memory-statistics>
    <ppp-memory-tag>...</ppp-memory-tag>
  </ppp-memory-statistics>
</ppp-statistics-information>
```

Description PPP process memory statistics.

Contents <ppp-memory-tag>—Tag associated with memory blocks.

<ppp-memory-tag>

Usage

```
<ppp-memory-statistics>
  <ppp-memory-tag>
    <ppp-memory-tag-name>ppp-memory-tag-name</ppp-memory-tag-name>
    <ppp-memory-tag-size>ppp-memory-tag-size</ppp-memory-tag-size>
    <ppp-memory-tag-active>ppp-memory-tag-active</ppp-memory-tag-active>
    <ppp-memory-tag-free>ppp-memory-tag-free</ppp-memory-tag-free>
    <ppp-memory-tag-maximum-free>ppp-memory-tag-maximum-free
                </ppp-memory-tag-maximum-free>
    <ppp-memory-tag-requests>ppp-memory-tag-requests</ppp-memory-tag-requests>
    <ppp-memory-tag-failures>ppp-memory-tag-failures</ppp-memory-tag-failures>
    <ppp-memory-tag-total>ppp-memory-tag-total</ppp-memory-tag-total>
  </ppp-memory-tag>
</ppp-memory-statistics>
```

Description Tag associated with memory blocks.

Contents

<ppp-memory-tag-active>—Number of active memory blocks.

<ppp-memory-tag-failures>—Number of failed memory allocation requests.

<ppp-memory-tag-free>—Number of memory blocks on the free list.

<ppp-memory-tag-maximum-free>—Maximum number of memory blocks allowed on the free list.

<ppp-memory-tag-name>—Name of memory tag.

<ppp-memory-tag-requests>—Number of successful memory allocation requests.

<ppp-memory-tag-size>—Number of bytes of tagged memory allocated.

<ppp-memory-tag-total>—Total number of bytes of memory allocated by the memory tag.

<ppp-negotiated-options>

Usage

```
<ppp-session-protocol-information>
  <ppp-negotiated-options>
    <ipcp-address>...</ipcp-address>
    <ipcp-compression-protocol/>
    <ipcp-primary-dns>ipcp-primary-dns</ipcp-primary-dns>
    <ipcp-primary-wins>ipcp-primary-wins</ipcp-primary-wins>
    <ipcp-secondary-dns>ipcp-secondary-dns</ipcp-secondary-dns>
    <ipcp-secondary-wins>ipcp-secondary-wins</ipcp-secondary-wins>
    <ipv6cp-interface-identifier>...</ipv6cp-interface-identifier>
    <bcp-mac-support>bcp-mac-support</bcp-mac-support>
    <bcp-tagged-frame>bcp-tagged-frame</bcp-tagged-frame>
    <lcp-address-compression-field-compression/>
    <lcp-async-map/>
    <lcp-authentication-protocol>...</lcp-authentication-protocol>
    <lcp-endpoint-discriminator>...</lcp-endpoint-discriminator>
    <lcp-magic-number>lcp-magic-number</lcp-magic-number>
    <lcp-mrru>lcp-mrru</lcp-mrru>
    <lcp-mru>lcp-mru</lcp-mru>
    <lcp-multilink-header>...</lcp-multilink-header>
    <lcp-protocol-field-compression/>
    <lcp-short-sequence/>
  </ppp-negotiated-options>
</ppp-session-protocol-information>
```

Description PPP options negotiated with the remote peer.

Contents <bcp-mac-support>—Supported MAC type information conveyed to the remote peer.

<bcp-tagged-frame>—BCP tagging support information conveyed to the remote peer.

<ipcp-address>—Negotiated IP address Internet Protocol Control Protocol option.

<ipcp-compression-protocol>—Compression protocol Internet Protocol Control Protocol option.

<ipcp-primary-dns>—Internet Protocol Control Protocol primary domain name server option.

<ipcp-primary-wins>—Internet Protocol Control Protocol primary WINS option.

<ipcp-secondary-dns>—Internet Protocol Control Protocol secondary domain name server option.

<ipcp-secondary-wins>—Internet Protocol Control Protocol secondary WINS option.

<ipv6cp-interface-identifier>—Negotiated Internet Protocol Version 6 Control Protocol interface identifier option.

<lcp-address-compression-field-compression>—Link Control Protocol address compression/field compression option.

<lcp-async-map>—Link Control Protocol asynchronous map option.

<lcp-authentication-protocol>—Link Control Protocol authentication protocol option.

<lcp-endpoint-discriminator>—Link Control Protocol endpoint discriminator option.

<lcp-magic-number>—Link Control Protocol magic number option.

<lcp-mrru>—Link Control Protocol maximum reconstructed receive unit option.

<lcp-mru>—Link Control Protocol maximum receive unit option.

<lcp-multilink-header>—Link Control Protocol multilink header format option.

<lcp-protocol-field-compression>—Link Control Protocol protocol/field compression option.

<lcp-short-sequence>—Link Control Protocol short sequence option.

<ppp-session>

Usage

```
<ppp-interface-information | ppp-summary-information |
ppp-subscriber-summary-information | ppp-subscriber-summary-noheader-information>
  <ppp-session>
    <session-name>session-name</session-name>
    <session-type>session-type</session-type>
    <session-phase>session-phase</session-phase>
    <session-flags>...</session-flags>
    <ppp-last-started>ppp-last-started</ppp-last-started>
    <ppp-last-completed>ppp-last-completed</ppp-last-completed>
    <ppp-auth-protocol-information>...</ppp-auth-protocol-information>
    <ppp-session-protocol-information>...</ppp-session-protocol-information>
  </ppp-session>
</ppp-interface-information | ppp-summary-information |
ppp-subscriber-summary-information | ppp-subscriber-summary-noheader-information>
```

Description PPP session.

Contents

<ppp-auth-protocol-information>—Authentication protocol information for PPP session.

<ppp-last-completed>—Time when negotiation of the protocol last completedsuccessfully, in the format YYYY-MM-DD hh:mm:ss TZ (year,month, date, hour in 24-hour format, minute second, timezone).

<ppp-last-started>—Time when negotiation of the protocol last started, in theformat YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in24-hour format, minute second, time zone).

<ppp-session-protocol-information>—LCP/NCP protocol information for PPP session.

<session-flags>—PPP session flags.

<session-name>—PPP session name.

<session-phase>—PPP session phase.

<session-type>—PPP session type.

<ppp-session-protocol-information>

Usage

```
<ppp-session>
  <ppp-session-protocol-information>
    <ppp-state>ppp-state</ppp-state>
    <ppp-last-started>ppp-last-started</ppp-last-started>
    <ppp-last-completed>ppp-last-completed</ppp-last-completed>
    <ppp-protocol>ppp-protocol</ppp-protocol>
    <ppp-destination-profile>...</ppp-destination-profile>
    <ppp-negotiated-options>...</ppp-negotiated-options>
  </ppp-session-protocol-information>
</ppp-session>
```

Description LCP/NCP protocol information for PPP session.

Contents <ppp-destination-profile>—Destination profile information.

<ppp-last-completed>—Time when negotiation of the protocol last completedsuccessfully, in the format YYYY-MM-DD hh:mm:ss TZ (year,month, date, hour in 24-hour format, minute second, timezone).

<ppp-last-started>—Time when negotiation of the protocol last started, in theformat YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in24-hour format, minute second, time zone).

<ppp-negotiated-options>—PPP options negotiated with the remote peer.

<ppp-protocol>—Protocol value.

<ppp-state>—Protocol state.

<ppp-session-statistics>

Usage

```
<ppp-statistics-information>
  <ppp-session-statistics>
    <sessions-total>sessions-total</sessions-total>
    <sessions-disabled>sessions-disabled</sessions-disabled>
    <sessions-establish>sessions-establish</sessions-establish>
    <sessions-authenticate>sessions-authenticate</sessions-authenticate>
    <sessions-network>sessions-network</sessions-network>
    <bundles-pending>bundles-pending</bundles-pending>
  </ppp-session-statistics>
</ppp-statistics-information>
```

Description PPP session statistics.

Contents <bundles-pending>—Number of multilink bundles with links waiting.

<sessions-authenticate>—Number of session in authenticate phase.

<sessions-disabled>—Number of sessions in disabled phase.

<sessions-establish>—Number of sessions in establishment phase.

<sessions-network>—Number of session in network phase.

<sessions-total>—Total number of sessions.

<ppp-statistics-information>

Usage

```
<rpc-reply>
  <ppp-statistics-information>
    <ppp-session-statistics>...</ppp-session-statistics>
    <ppp-memory-statistics>...</ppp-memory-statistics>
    <ppp-subscriber-statistics>...</ppp-subscriber-statistics>
  </ppp-statistics-information>
</rpc-reply>
```

Description PPP statistics.

Contents <ppp-memory-statistics>—PPP process memory statistics.

<ppp-session-statistics>—PPP session statistics.

<ppp-subscriber-statistics>—PPP subscriber statistics.

<ppp-subscriber-memory-pool>

Usage

```
<ppp-subscriber-memory-statistics>
  <ppp-subscriber-memory-pool>
    <ppp-subscriber-memory-pool-name>ppp-subscriber-memory-pool-name
                </ppp-subscriber-memory-pool-name>
    <ppp-subscriber-memory-pool-entry-size>ppp-subscriber-memory-pool-entry-size
                </ppp-subscriber-memory-pool-entry-size>
    <ppp-subscriber-memory-pool-entries>ppp-subscriber-memory-pool-entries
                </ppp-subscriber-memory-pool-entries>
    <ppp-subscriber-memory-pool-free>ppp-subscriber-memory-pool-free
                </ppp-subscriber-memory-pool-free>

<ppp-subscriber-memory-pool-maximum-free>ppp-subscriber-memory-pool-maximum-fre
e
                </ppp-subscriber-memory-pool-maximum-free>
    <ppp-subscriber-memory-pool-requests>ppp-subscriber-memory-pool-requests
                </ppp-subscriber-memory-pool-requests>
    <ppp-subscriber-memory-pool-failures>ppp-subscriber-memory-pool-failures
                </ppp-subscriber-memory-pool-failures>
    <ppp-subscriber-memory-pool-total>ppp-subscriber-memory-pool-total
                </ppp-subscriber-memory-pool-total>
  </ppp-subscriber-memory-pool>
</ppp-subscriber-memory-statistics>
```

Description Tag associated with memory blocks.

Contents

<ppp-subscriber-memory-pool-entries>—Number of active memory blocks.

<ppp-subscriber-memory-pool-entry-size>—Number of bytes of tagged memory allocated.

<ppp-subscriber-memory-pool-failures>—Number of failed memory allocation requests.

<ppp-subscriber-memory-pool-free>—Number of memory blocks on the free list.

<ppp-subscriber-memory-pool-maximum-free>—Maximum number of memory blocks allowed on the free list.

<ppp-subscriber-memory-pool-name>—Name of memory tag.

<ppp-subscriber-memory-pool-requests>—Number of successful memory allocation requests.

<ppp-subscriber-memory-pool-total>—Total number of bytes allocated by the memory tag.

<ppp-subscriber-memory-statistics>

Usage
```
<ppp-subscriber-statistics>
  <ppp-subscriber-memory-statistics>
    <ppp-subscriber-memory-pool>...</ppp-subscriber-memory-pool>
  </ppp-subscriber-memory-statistics>
</ppp-subscriber-statistics>
```

Description PPP universal edge process memory statistics.

Contents <ppp-subscriber-memory-pool>—Tag associated with memory blocks.

<ppp-subscriber-session-statistics>

Usage
```
<ppp-subscriber-statistics>
  <ppp-subscriber-session-statistics>
    <subscriber-sessions-total>subscriber-sessions-total
                </subscriber-sessions-total>
    <subscriber-sessions-disabled>subscriber-sessions-disabled
                </subscriber-sessions-disabled>
    <subscriber-sessions-establish>subscriber-sessions-establish
                </subscriber-sessions-establish>
    <subscriber-sessions-authenticate>subscriber-sessions-authenticate
                </subscriber-sessions-authenticate>
    <subscriber-sessions-network>subscriber-sessions-network
                </subscriber-sessions-network>
  </ppp-subscriber-session-statistics>
</ppp-subscriber-statistics>
```

Description PPP subscriber session statistics.

Contents <subscriber-sessions-authenticate>—Number of subscriber sessions in authenticate phase.

<subscriber-sessions-disabled>—Number of subscriber sessions in disabled phase.

<subscriber-sessions-establish>—Number of subscriber sessions in establishment phase.

<subscriber-sessions-network>—Number of subscriber sessions in network phase.

<subscriber-sessions-total>—Total number of subscriber sessions.

<ppp-subscriber-statistics>

Usage
```
<ppp-statistics-information>
  <ppp-subscriber-statistics>
    <ppp-subscriber-session-statistics>...</ppp-subscriber-session-statistics>
    <ppp-subscriber-memory-statistics>...</ppp-subscriber-memory-statistics>
  </ppp-subscriber-statistics>
</ppp-statistics-information>
```

Description PPP subscriber statistics.

Contents <ppp-subscriber-memory-statistics>—PPP universal edge process memory statistics.

<ppp-subscriber-session-statistics>—PPP subscriber session statistics.

<ppp-subscriber-summary-information>

Usage
```
<rpc-reply>
  <ppp-subscriber-summary-information>
    <ppp-session>...</ppp-session>
  </ppp-subscriber-summary-information>
</rpc-reply>
```

Description PPP summary information.

Contents <ppp-session>—PPP session.

<ppp-subscriber-summary-noheader-information>

Usage
```
<rpc-reply>
  <ppp-subscriber-summary-noheader-information>
    <ppp-session>...</ppp-session>
  </ppp-subscriber-summary-noheader-information>
</rpc-reply>
```

Description PPP summary information.

Contents <ppp-session>—PPP session.

<ppp-summary-information>

Usage
```
<rpc-reply>
  <ppp-summary-information>
    <ppp-session>...</ppp-session>
  </ppp-summary-information>
</rpc-reply>
```

Description PPP summary information.

Contents <ppp-session>—PPP session.

<session-flags>

Usage

```
<ppp-session>
  <session-flags>
    <session-bundled/>
    <session-ncp-only/>
    <session-always-up/>
    <session-tcc/>
    <session-looped/>
    <session-monitored/>
  </session-flags>
</ppp-session>
```

Description PPP session flags.

Contents <session-always-up>—Session is always up.

<session-bundled>—Session is part of a multilink bundle.

<session-looped>—Session has detected a loop.

<session-monitored>—Session packet exchange is being monitored.

<session-ncp-only>—Session only negotiates Network Control Protocol.

<session-tcc>—Session is a translational cross-connect.

Summary of PPP over Ethernet Response Tags

This section lists JUNOS XML tags that contain information about the Point-to-Point Protocol (PPP) over Ethernet. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-pppoed. To review the DTD for the tags, see "DTD for PPP over Ethernet Response Tags" on page 2331.

<pppoe-counters>

Usage

```
<pppoe-statistics>
  <pppoe-counters>
    <padi-sent>padi-sent</padi-sent>
    <padi-received>padi-received</padi-received>
    <pado-sent>pado-sent</pado-sent>
    <pado-received>pado-received</pado-received>
    <padr-sent>padr-sent</padr-sent>
    <padr-received>padr-received</padr-received>
    <pads-sent>pads-sent</pads-sent>
    <pads-received>pads-received</pads-received>
    <padt-sent>padt-sent</padt-sent>
    <padt-received>padt-received</padt-received>
    <padm-sent>padm-sent</padm-sent>
    <padm-received>padm-received</padm-received>
    <padn-sent>padn-sent</padn-sent>
    <padn-received>padn-received</padn-received>
    <padq-sent>padq-sent</padq-sent>
    <padq-received>padq-received</padq-received>
    <servname-err-sent>servname-err-sent</servname-err-sent>
    <servname-err-received>servname-err-received</servname-err-received>
    <acsystem-err-sent>acsystem-err-sent</acsystem-err-sent>
    <acsystem-err-received>acsystem-err-received</acsystem-err-received>
    <generic-err-sent>generic-err-sent</generic-err-sent>
    <generic-err-received>generic-err-received</generic-err-received>
    <malformed-pkt-received>malformed-pkt-received</malformed-pkt-received>
    <unknown-pkt-received>unknown-pkt-received</unknown-pkt-received>
    <padi-tmo>padi-tmo</padi-tmo>
    <pado-tmo>pado-tmo</pado-tmo>
    <padr-tmo>padr-tmo</padr-tmo>
  </pppoe-counters>
</pppoe-statistics>
```

Description No documentation is available yet.

Contents

<acsystem-err-received>—AC system error received counter.

<acsystem-err-sent>—AC system error sent counter.

<generic-err-received>—Generic error received counter.

<generic-err-sent>—Generic error sent counter.

<malformed-pkt-received>—Malformed error received counter.

<padi-received>—PADI received counter.

<padi-sent>—PADI sent counter.

<padi-tmo>—PADI timeout counter.

<padm-received>—PADM received counter.

<padm-sent>—PADM sent counter.

<padn-received>—PADN received counter.

<padn-sent>—PADN sent counter.

<pado-received>—PADO received counter.

<pado-sent>—PADO sent counter.

<pado-tmo>—PADO timeout counter.

<padq-received>—PADQ received counter.

<padq-sent>—PADQ sent counter.

<padr-received>—PADR received counter.

<padr-sent>—PADR sent counter.

<padr-tmo>—PADR timeout counter.

<pads-received>—PADS received counter.

<pads-sent>—PADS sent counter.

<padt-received>—PADT received counter.

<padt-sent>—PADT sent counter.

<servname-err-received>—Service name error received counter.

<servname-err-sent>—Service name error sent counter.

<unknown-pkt-received>—Unknown packet received counter.

<pppoe-interface>

Usage

```
<pppoe-interface-information>
  <pppoe-interface>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
    <underlying-interface-name>underlying-interface-name
                </underlying-interface-name>
    <underlying-interface-index>underlying-interface-index
                </underlying-interface-index>
    <state>state</state>
    <session-id>session-id</session-id>
    <ac-name-config>ac-name-config</ac-name-config>
    <ac-name-session>ac-name-session</ac-name-session>
    <service-name>service-name</service-name>
    <remote-mac>remote-mac</remote-mac>
    <auto-reconnect>auto-reconnect</auto-reconnect>
    <idle-timeout>idle-timeout</idle-timeout>
    <session-uptime>session-uptime</session-uptime>
    <dynamic-interface-bandwidth>dynamic-interface-bandwidth
                </dynamic-interface-bandwidth>
    <padm-motm>padm-motm</padm-motm>
    <padm-hurl>padm-hurl</padm-hurl>
  </pppoe-interface>
</pppoe-interface-information>
```

Description No documentation is available yet.

Contents

<ac-name-config>—Configured AC name.

<ac-name-session>—Session AC name.

<auto-reconnect>—Autoreconnect timeout.

<dynamic-interface-bandwidth>—Dynamic interface bandwidth.

<idle-timeout>—Idle timeout.

<interface-index>—Index.

<interface-name>—Interface name.

<padm-hurl>—PADM HTTP URL tag.

<padm-motm>—PADM Message of the Moment tag.

<remote-mac>—Remote MAC address.

<service-name>—Service name.

<session-id>—Session ID.

<session-uptime>—Duration for which the session has been up.

<state>—State.

<underlying-interface-index>—Underlying interface index.

<underlying-interface-name>—Underlying interface name.

<pppoe-interface-information>

Usage
```
<rpc-reply>
  <pppoe-interface-information>
    <pppoe-interface>...</pppoe-interface>
  </pppoe-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pppoe-interface>—No documentation is available yet.

<pppoe-statistics>

Usage
```
<pppoe-statistics-information>
  <pppoe-statistics>
    <active-sessions>active-sessions</active-sessions>
    <pppoe-counters>...</pppoe-counters>
  </pppoe-statistics>
</pppoe-statistics-information>
```

Description No documentation is available yet.

Contents <active-sessions>—Number of active PPPoE sessions.

<pppoe-counters>—No documentation is available yet.

<pppoe-statistics-information>

Usage
```
<rpc-reply>
  <pppoe-statistics-information>
    <pppoe-statistics>...</pppoe-statistics>
  </pppoe-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pppoe-statistics>—No documentation is available yet.

<pppoe-version>

Usage

```
<rpc-reply>
  <pppoe-version>
    <max-sessions>max-sessions</max-sessions>
    <padi-resend-tmo>padi-resend-tmo</padi-resend-tmo>
    <padr-resend-tmo>padr-resend-tmo</padr-resend-tmo>
    <max-resend-tmo>max-resend-tmo</max-resend-tmo>
    <max-ac-tmo>max-ac-tmo</max-ac-tmo>
  </pppoe-version>
</rpc-reply>
```

Description No documentation is available yet.

Contents <max-ac-tmo>—Maximum configured AC timeout.

<max-resend-tmo>—Maximum resend timeout.

<max-sessions>—Maximum number of PPPoE sessions.

<padi-resend-tmo>—PADI resend timeout.

<padr-resend-tmo>—PADR resend timeout.

Summary of Probe-Test Response Tags

This section lists JUNOS XML tags that contain information about probe tests related to real-time performance monitoring. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-probe-tests. To review the DTD for the tags, see "DTD for Probe-Test Response Tags" on page 2335.

<hop>

Usage

```
<traceroute-results>
  <hop>
    <ttl-value>ttl-value</ttl-value>
    <percent-loss>percent-loss</percent-loss>
    <icmp-extension>icmp-extension</icmp-extension>
    <probe-result>...</probe-result>
  </hop>
</traceroute-results>
```

Description Traceroute results for a single hop (TTL value).

Contents <icmp-extension>—String representation of data in ICMP packet extension.

<percent-loss>—Probe packet loss (no response at all) as percentage.

<probe-result>—Result of one probe.

<ttl-value>—Current TTL value being sent in probes.

<icmp-code>

Usage

```
<probe-result>
  <icmp-code>
    <icmp-code-none/>
    <icmp-unreach-net/>
    <icmp-unreach-host/>
    <icmp-unreach-protocol/>
    <icmp-unreach-port/>
    <icmp-unreach-needfrag/>
    <icmp-unreach-srcfail/>
    <icmp-unreach-net-unknown/>
    <icmp-unreach-host-unknown/>
    <icmp-unreach-isolated/>
    <icmp-unreach-net-prohib/>
    <icmp-unreach-host-prohib/>
    <icmp-unreach-tosnet/>
    <icmp-unreach-toshost/>
    <icmp-unreach-filter-prohib/>
    <icmp-unreach-host-precedence/>
    <icmp-unreach-precedence-cutoff/>
    <icmp-redirect-net/>
    <icmp-redirect-host/>
    <icmp-redirect-tosnet/>
    <icmp-redirect-toshost/>
    <icmp-timxceed-intrans/>
    <icmp-timxceed-reass/>
    <icmp-paramprob-optabsent/>
    <icmp6-unreach-noroute/>
    <icmp6-unreach-admin/>
    <icmp6-unreach-beyond-scope/>
    <icmp6-unreach-address/>
    <icmp6-unreach-port/>
    <icmp6-time-exceed-transit/>
    <icmp6-time-exceed-reassembly/>
    <icmp6-parameter-problem-header/>
    <icmp6-parameter-problem-nextheader/>
    <icmp6-parameter-problem-option/>
    <icmp6-ni-subject-ipv6/>
    <icmp6-ni-subject-fqdn/>
    <icmp6-ni-subject-ipv4/>
    <icmp6-ni-success/>
    <icmp6-ni-refused/>
    <icmp6-ni-unknown/>
  </icmp-code>
</probe-result>
```

Description Type of ICMP message type sub code.

Contents <icmp-code-none>—No documentation is available yet.

<icmp-paramprob-optabsent>—No documentation is available yet.

<icmp-redirect-host>—No documentation is available yet.

<icmp-redirect-net>—No documentation is available yet.

<icmp-redirect-toshost>—No documentation is available yet.

<icmp-redirect-tosnet>—No documentation is available yet.

<icmp-timxceed-intrans>—No documentation is available yet.

<icmp-timxceed-reass>—No documentation is available yet.

<icmp-unreach-filter-prohib>—No documentation is available yet.

<icmp-unreach-host>—No documentation is available yet.

<icmp-unreach-host-precedence>—No documentation is available yet.

<icmp-unreach-host-prohib>—No documentation is available yet.

<icmp-unreach-host-unknown>—No documentation is available yet.

<icmp-unreach-isolated>—No documentation is available yet.

<icmp-unreach-needfrag>—No documentation is available yet.

<icmp-unreach-net>—No documentation is available yet.

<icmp-unreach-net-prohib>—No documentation is available yet.

<icmp-unreach-net-unknown>—No documentation is available yet.

<icmp-unreach-port>—No documentation is available yet.

<icmp-unreach-precedence-cutoff>—No documentation is available yet.

<icmp-unreach-protocol>—No documentation is available yet.

<icmp-unreach-srcfail>—No documentation is available yet.

<icmp-unreach-toshost>—No documentation is available yet.

<icmp-unreach-tosnet>—No documentation is available yet.

<icmp6-ni-refused>—No documentation is available yet.

<icmp6-ni-subject-fqdn>—No documentation is available yet.

<icmp6-ni-subject-ipv4>—No documentation is available yet.

<icmp6-ni-subject-ipv6>—No documentation is available yet.

<icmp6-ni-success>—No documentation is available yet.

<icmp6-ni-unknown>—No documentation is available yet.

<icmp6-parameter-problem-header>—No documentation is available yet.

<icmp6-parameter-problem-nextheader>—No documentation is available yet.

<icmp6-parameter-problem-option>—No documentation is available yet.

<icmp6-time-exceed-reassembly>—No documentation is available yet.

<icmp6-time-exceed-transit>—No documentation is available yet.

<icmp6-unreach-address>—No documentation is available yet.

<icmp6-unreach-admin>—No documentation is available yet.

<icmp6-unreach-beyond-scope>—No documentation is available yet.

<icmp6-unreach-noroute>—No documentation is available yet.

<icmp6-unreach-port>—No documentation is available yet.

<icmp-type>

Usage

```
<probe-result>
  <icmp-type>
    <icmp-type-none/>
    <icmp-echoreply/>
    <icmp-unreach/>
    <icmp-sourcequench/>
    <icmp-redirect/>
    <icmp-echo/>
    <icmp-routeradvert/>
    <icmp-routersolicit/>
    <icmp-timxceed/>
    <icmp-paramprob/>
    <icmp-tstamp/>
    <icmp-tstampreply/>
    <icmp-ireq/>
    <icmp-ireqreply/>
    <icmp-maskreq/>
    <icmp-maskreply/>
    <icmp6-unreach/>
    <icmp6-packet-too-big/>
    <icmp6-time-exceeded/>
    <icmp6-parameter-problem/>
    <icmp6-echo-request/>
    <icmp6-echo-reply/>
    <icmp6-membership-query/>
    <icmp6-membership-report/>
    <icmp6-membership-reduction/>
    <icmp6-router-solicit/>
    <icmp6-router-advert/>
    <icmp6-neighbor-solicit/>
    <icmp6-neighbor-advert/>
    <icmp6-redirect/>
    <icmp6-router-renumbering/>
    <icmp6-ni-query/>
    <icmp6-ni-reply/>
  </icmp-type>
</probe-result>
```

Description Type of ICMP message.

Contents <icmp-echo>—No documentation is available yet.

<icmp-echoreply>—No documentation is available yet.

<icmp-ireq>—No documentation is available yet.

<icmp-ireqreply>—No documentation is available yet.

<icmp-maskreply>—No documentation is available yet.

<icmp-maskreq>—No documentation is available yet.

<icmp-paramprob>—No documentation is available yet.

<icmp-redirect>—No documentation is available yet.

<icmp-routeradvert>—No documentation is available yet.

<icmp-routersolicit>—No documentation is available yet.

<icmp-sourcequench>—No documentation is available yet.

<icmp-timxceed>—No documentation is available yet.

<icmp-tstamp>—No documentation is available yet.

<icmp-tstampreply>—No documentation is available yet.

<icmp-type-none>—No documentation is available yet.

<icmp-unreach>—No documentation is available yet.

<icmp6-echo-reply>—No documentation is available yet.

<icmp6-echo-request>—No documentation is available yet.

<icmp6-membership-query>—No documentation is available yet.

<icmp6-membership-reduction>—No documentation is available yet.

<icmp6-membership-report>—No documentation is available yet.

<icmp6-neighbor-advert>—No documentation is available yet.

<icmp6-neighbor-solicit>—No documentation is available yet.

<icmp6-ni-query>—No documentation is available yet.

<icmp6-ni-reply>—No documentation is available yet.

<icmp6-packet-too-big>—No documentation is available yet.

<icmp6-parameter-problem>—No documentation is available yet.

<icmp6-redirect>—No documentation is available yet.

<icmp6-router-advert>—No documentation is available yet.

<icmp6-router-renumbering>—No documentation is available yet.

<icmp6-router-solicit>—No documentation is available yet.

<icmp6-time-exceeded>—No documentation is available yet.

<icmp6-unreach>—No documentation is available yet.

<ip-options>

Usage
```
<probe-result>
  <ip-options>
    <record-route>...</record-route>
    <loose-source-route>...</loose-source-route>
    <strict-source-route>...</strict-source-route>
  </ip-options>
</probe-result>
```

Description IP options contained in the response.

Contents <loose-source-route>—Loose source route (LSRR) IP option.

<record-route>—Record route (RR) IP option.

<strict-source-route>—Strict source route (SSRR) IP option.

<loose-source-route>

Usage
```
<ip-options>
  <loose-source-route>
    <record-route-host>...</record-route-host>
  </loose-source-route>
</ip-options>
```

Description Loose source route (LSRR) IP option.

Contents <record-route-host>—Host entry in the record route.

<lsping-probe-reply>

Usage

```
<lsping-results>
  <lsping-probe-reply>
    <lsping-sequence-number>lsping-sequence-number</lsping-sequence-number>
    <lsping-return-code>lsping-return-code</lsping-return-code>
    <lsping-ip-address>lsping-ip-address</lsping-ip-address>
    <lsping-round-trip-time>lsping-round-trip-time</lsping-round-trip-time>
    <lsping-local-transmit-time>lsping-local-transmit-time
                </lsping-local-transmit-time>
    <lsping-local-transmit-time-us>lsping-local-transmit-time-us
                </lsping-local-transmit-time-us>
    <lsping-remote-receive-time>lsping-remote-receive-time
                </lsping-remote-receive-time>
    <lsping-remote-receive-time-us>lsping-remote-receive-time-us
                </lsping-remote-receive-time-us>
  </lsping-probe-reply>
</lsping-results>
```

Description No documentation is available yet.

Contents <lsping-ip-address>—IPV4 Egress address.

<lsping-local-transmit-time>—Local transmit time in seconds since Jan 1,1970.

<lsping-local-transmit-time-us>—Local transmit time in micro-seconds since Jan 1,1970.

<lsping-remote-receive-time>—Remote receive time in seconds since Jan 1,1970.

<lsping-remote-receive-time-us>—Remote receive time in micro-seconds since Jan 1,1970.

<lsping-return-code>—Success or failure code.

<lsping-round-trip-time>—Round Trip Time in ms.

<lsping-sequence-number>—Sequence number in request packet.

<lsping-probe-request>

Usage

```
<lsping-results>
  <lsping-probe-request>
    <lsping-sequence-number>lsping-sequence-number</lsping-sequence-number>
    <lsping-interface-index>lsping-interface-index</lsping-interface-index>
    <lsping-label>lsping-label</lsping-label>
    <lsping-packet-size>lsping-packet-size</lsping-packet-size>
  </lsping-probe-request>
</lsping-results>
```

Description One request probe.

Contents <lsping-interface-index>—No documentation is available yet.

<lsping-label>—Label of MPLS packet.

<lsping-packet-size>—Ping request packet size.

<lsping-sequence-number>—Sequence number in request packet.

<lsping-results>

Usage

```
<rpc-reply>
  <lsping-results>
    <lsping-route-comment>lsping-route-comment</lsping-route-comment>
    <lsping-probe-request>...</lsping-probe-request>
    <lsping-probe-reply>...</lsping-probe-reply>
    <lsping-results-summary>...</lsping-results-summary>
    <vpls-ping-results-summary>...</vpls-ping-results-summary>
    <lsping-sweep-summary>...</lsping-sweep-summary>
    <lsping-success/>
    <lsping-failure>lsping-failure</lsping-failure>
  </lsping-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lsping-failure>—Lsping failed.

<lsping-probe-reply>—No documentation is available yet.

<lsping-probe-request>—One request probe.

<lsping-results-summary>—Summary of lsping probe results.

<lsping-route-comment>—Route established using this protocol.

<lsping-success>—Destination reached.

<lsping-sweep-summary>—Ping sweep result.

<vpls-ping-results-summary>—Summary of vpls ping probe results.

<lsping-results-summary>

Usage

```
<lsping-results>
  <lsping-results-summary>
    <lsping-packets-transmitted>lsping-packets-transmitted
                    </lsping-packets-transmitted>
    <lsping-packets-received>lsping-packets-received</lsping-packets-received>
    <lsping-packet-loss>lsping-packet-loss</lsping-packet-loss>
    <lsping-error-packets>lsping-error-packets</lsping-error-packets>
  </lsping-results-summary>
</lsping-results>
```

Description Summary of lsping probe results.

Contents <lsping-error-packets>— Number of packets received with error status.

<lsping-packet-loss>—Lsping percentage of packets that resulted in no response.

<lsping-packets-received>—Number of packets received from the target host.

<lsping-packets-transmitted>—Number of packets sent to target host.

<lsping-sweep-summary>

Usage

```
<lsping-results>
  <lsping-sweep-summary>
    <lsping-mtu>lsping-mtu</lsping-mtu>
  </lsping-sweep-summary>
</lsping-results>
```

Description Ping sweep result.

Contents <lsping-mtu>— Maximum Transmission Unit (MTU).

<ping-results>

Usage

```
<rpc-reply>
  <ping-results>
    <target-host>target-host</target-host>
    <source>source</source>
    <target-ip>target-ip</target-ip>
    <packet-size>packet-size</packet-size>
    <probe-result>...</probe-result>
    <probe-results-summary>...</probe-results-summary>
    <ping-success/>
    <ping-failure>ping-failure</ping-failure>
  </ping-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<packet-size>—Packet size of probes (bytes).

<ping-failure>—Ping failed.

<ping-success>—Destination was reached.

<probe-result>—Result of one probe.

<probe-results-summary>—Summary of probe results.

<source>—Specified source address or hostname.

<target-host>—Specified target address or hostname.

<target-ip>—Resolved target IP address.

<probe-result>

Usage

```
<ping-results | hop>
  <probe-result>
    <date-determined>date-determined</date-determined>
    <probe-index>probe-index</probe-index>
    <sequence-number>sequence-number</sequence-number>
    <time-to-live>time-to-live</time-to-live>
    <response-size>response-size</response-size>
    <rtt>rtt</rtt>
    <ingress-interface>ingress-interface</ingress-interface>
    <icmp-type>...</icmp-type>
    <icmp-code>...</icmp-code>
    <ip-address>ip-address</ip-address>
    <host-name>host-name</host-name>
    <ip-options>...</ip-options>
    <probe-success/>
    <probe-duplicate/>
    <probe-reached/>
    <probe-failure>probe-failure</probe-failure>
  </probe-result>
</ping-results | hop>
```

Description Result of one probe.

Contents <date-determined>—UTC time when the result was determined, as number of seconds since 1 January 1970.

<host-name>—Hostname of interface that received probe.

<icmp-code>—Type of ICMP message type sub code.

<icmp-type>—Type of ICMP message.

<ingress-interface>—Interface that received the response.

<ip-address>—IP address of interface that received probe.

<ip-options>—IP options contained in the response.

<probe-duplicate>—A duplicate response was received.

<probe-failure>—No valid response received.

<probe-index>—Sequence number of probe.

<probe-reached>—Probe reached destination host.

<probe-success>—A valid response was received.

<response-size>—Size of response (bytes).

<rtt>—Route trip time for probe (microseconds).

<sequence-number>—Sequence number in response packet.

<time-to-live>—Time-to-live (TTL) value in response packet.

<probe-results-summary>

Usage

```
<ping-results>
  <probe-results-summary>
    <probes-sent>probes-sent</probes-sent>
    <responses-received>responses-received</responses-received>
    <packet-loss>packet-loss</packet-loss>
    <response-duplicates>response-duplicates</response-duplicates>
    <response-unexpected-sequence>response-unexpected-sequence
                </response-unexpected-sequence>
    <rtt-minimum>rtt-minimum</rtt-minimum>
    <rtt-average>rtt-average</rtt-average>
    <rtt-maximum>rtt-maximum</rtt-maximum>
    <rtt-stddev>rtt-stddev</rtt-stddev>
  </probe-results-summary>
</ping-results>
```

Description Summary of probe results.

Contents <packet-loss>—Percentage of probes that resulted in no response.

<probes-sent>—Number of probes sent to target host.

<response-duplicates>—Number of duplicate responses received for one or more probes.

<response-unexpected-sequence>—Number of responses received with unexpected sequence number.

<responses-received>—Number of responses to probes received from target host.

<rtt-average>—Average round trip time (microseconds).

<rtt-maximum>—Maximum round trip time (microseconds).

<rtt-minimum>—Minimum round trip time (microseconds).

<rtt-stddev>—Standard Deviation of round trip time (microseconds).

<record-route>

Usage

```
<ip-options>
  <record-route>
    <record-route-host>...</record-route-host>
  </record-route>
</ip-options>
```

Description Record route (RR) IP option.

Contents <record-route-host>—Host entry in the record route.

<record-route-host>

Usage

```
<record-route | loose-source-route | strict-source-route>
  <record-route-host>
    <ip-address>ip-address</ip-address>
    <host-name>host-name</host-name>
  </record-route-host>
</record-route | loose-source-route | strict-source-route>
```

Description Host entry in the record route.

Contents <host-name>—Hostname of interface that received probe.

<ip-address>—IP address of interface that received probe.

<strict-source-route>

Usage

```
<ip-options>
  <strict-source-route>
    <record-route-host>...</record-route-host>
  </strict-source-route>
</ip-options>
```

Description Strict source route (SSRR) IP option.

Contents <record-route-host>—Host entry in the record route.

<traceroute-results>

Usage

```
<rpc-reply>
  <traceroute-results>
    <target-host>target-host</target-host>
    <source>source</source>
    <target-ip>target-ip</target-ip>
    <packet-size>packet-size</packet-size>
    <max-hop-index>max-hop-index</max-hop-index>
    <hop>...</hop>
    <traceroute-success/>
    <traceroute-failure>traceroute-failure</traceroute-failure>
  </traceroute-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <hop>—Traceroute results for a single hop (TTL value).

<max-hop-index>—Maximum number of hops (maximum TTL value).

<packet-size>—Packet size of probes (bytes).

<source>—Specified source address or hostname.

<target-host>—Specified target address or hostname.

<target-ip>—Resolved target IP address.

<traceroute-failure>—Traceroute failed.

<traceroute-success>—Destination was reached.

<vpls-ping-results-summary>

Usage

```
<lsping-results>
  <vpls-ping-results-summary>
    <lsping-packets-transmitted>lsping-packets-transmitted
                </lsping-packets-transmitted>
    <lsping-packets-received>lsping-packets-received</lsping-packets-received>
    <lsping-packet-loss>lsping-packet-loss</lsping-packet-loss>
    <lsping-error-packets>lsping-error-packets</lsping-error-packets>
  </vpls-ping-results-summary>
</lsping-results>
```

Description Summary of vpls ping probe results.

Contents <lsping-error-packets>— Number of packets received with error status.

<lsping-packet-loss>—Lsping percentage of packets that resulted in no response.

<lsping-packets-received>—Number of packets received from the target host.

<lsping-packets-transmitted>—Number of packets sent to target host.

Summary of Product Metadata Response Tags

This section lists JUNOS XML tags that contain information about the product metadata. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-productmetadata. To review the DTD for the tags, see “DTD for Product Metadata Response Tag Elements” on page 2343.

<product>

Usage

```
<product-metadata-information>
  <product>
    <model>model</model>
    <product-number>product-number</product-number>
    <series>series</series>
    <product-line>product-line</product-line>
    <name>name</name>
    <description>description</description>
    <flag>flag</flag>
    <max-fpc-per-router>max-fpc-per-router</max-fpc-per-router>
    <max-fpc-per-chassis>max-fpc-per-chassis</max-fpc-per-chassis>
    <max-pics-per-slot>max-pics-per-slot</max-pics-per-slot>
    <max-sfm>max-sfm</max-sfm>
    <max-pfe-per-slot>max-pfe-per-slot</max-pfe-per-slot>
    <max-re>max-re</max-re>
    <max-chassis>max-chassis</max-chassis>
    <max-spmb-per-chassis>max-spmb-per-chassis</max-spmb-per-chassis>
    <max-sib-per-chassis>max-sib-per-chassis</max-sib-per-chassis>
    <max-pem-per-chassis>max-pem-per-chassis</max-pem-per-chassis>
    <max-fwd-classes>max-fwd-classes</max-fwd-classes>
    <defaults>defaults</defaults>
    <factory>factory</factory>
  </product>
</product-metadata-information>
```

Description Information about a product.

Contents <defaults>—Defaults configuration file.

<description>—Descriptive name of the product.

<factory>—Factory configuration file.

<flag>—Flags for the product model.

<max-chassis>—Maximum number of chassis.

<max-fpc-per-chassis>—Maximum number of FPCs in a single chassis.

<max-fpc-per-router>—Maximum number of FPCs in the router.

<max-fwd-classes>—Maximum number of forwarding classes.

<max-pem-per-chassis>—Maximum number of Power Entry Modules per chassis.

<max-pfe-per-slot>—Maximum number of Packet Forwarding Engines per slot.

<max-pics-per-slot>—Maximum number of pics per slot.

<max-re>—Maximum number of Routing Engines.

<max-sfm>—Maximum number of Switching and Forwarding Modules.

<max-sib-per-chassis>—Maximum number of Switch Interface Boards per chassis.

<max-spmb-per-chassis>—Maximum number of Switch Processor Mezzanine Boards per chassis.

<model>—Product model number.

<name>—Official name of the product.

<product-line>—Product-line of the product.

<product-number>—Product number.

<series>—Product version.

<product-metadata-information>

Usage

```
<rpc-reply>
  <product-metadata-information>
    <product>...</product>
  </product-metadata-information>
</rpc-reply>
```

Description Informtation on one or more products.

Contents <product>—Information about a product.

Summary of Redundant Interfaces Response Tags

This section lists JUNOS XML tags that contain operational information about redundant services interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-rdd. To review the DTD for the tags, see "DTD for Redundant Interfaces Response Tags" on page 2345.

<interface-redundancy>

Usage

```
<interface-redundancy-information>
  <interface-redundancy>
    <interface-name>interface-name</interface-name>
    <state>state</state>
    <last-change>last-change</last-change>
    <primary>primary</primary>
    <secondary>secondary</secondary>
    <current-status>current-status</current-status>
  </interface-redundancy>
</interface-redundancy-information>
```

Description No documentation is available yet.

Contents

<current-status>—Status of primary or secondary interface, or both.

<interface-name>—Name of the interface.

<last-change>—Time since last state change ([weeks][days] hours:minutes[:seconds]).

<primary>—Primary interface.

<secondary>—Secondary interface.

<state>—Interface state.

<interface-redundancy-detail>

Usage

```
<interface-redundancy-detail-information>
  <interface-redundancy-detail>
    <interface-name>interface-name</interface-name>
    <state>state</state>
    <last-change>last-change</last-change>
    <primary>primary</primary>
    <secondary>secondary</secondary>
    <current-status>current-status</current-status>
    <mode>mode</mode>
  </interface-redundancy-detail>
</interface-redundancy-detail-information>
```

Description No documentation is available yet.

Contents <current-status>—Status of primary or secondary interface, or both.

<interface-name>—Name of the interface.

<last-change>—Time since last state change ([weeks][days] hours:minutes[:seconds]).

<mode>—Mode of interface hot-standby or warm-standby.

<primary>—Primary interface.

<secondary>—Secondary interface.

<state>—Interface state.

<interface-redundancy-detail-information>

Usage

```
<rpc-reply>
  <interface-redundancy-detail-information>
    <interface-redundancy-detail>...</interface-redundancy-detail>
  </interface-redundancy-detail-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-redundancy-detail>—No documentation is available yet.

<interface-redundancy-information>

Usage

```
<rpc-reply>
  <interface-redundancy-information>
    <interface-redundancy>...</interface-redundancy>
  </interface-redundancy-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <interface-redundancy>—No documentation is available yet.

Summary of Resource Cleanup Response Tags

This section lists JUNOS XML tags that contain operational information about resource cleanup. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-res-cleanup. To review the DTD for the tags, see "DTD for Resource Cleanup Response Tags" on page 2347.

<cleanup-resources>

Usage
```
<process-resource-cleanup>
  <cleanup-resources>
    <resource>...</resource>
  </cleanup-resources>
</process-resource-cleanup>
```

Description Resources that can be cleaned up.

Contents <resource>—Resource information.

<process-resource-cleanup>

Usage
```
<system-resource-cleanup-processes-information>
  <process-resource-cleanup>
    <pid>pid</pid>
    <process-name>process-name</process-name>
    <cleanup-resources>...</cleanup-resources>
  </process-resource-cleanup>
</system-resource-cleanup-processes-information>
```

Description Resource clean up information for a process.

Contents <cleanup-resources>—Resources that can be cleaned up.

<pid>—Process identifier.

<process-name>—Process name.

<resource>

Usage

```
<cleanup-resources>
  <resource>
    <type>type</type>
    <major-number>major-number</major-number>
    <minor-number>minor-number</minor-number>
    <id>id</id>
    <key>key</key>
  </resource>
</cleanup-resources>
```

Description Resource information.

Contents <id>—Resource ID.

<key>—Resource key value.

<major-number>—GENCFG blob major number.

<minor-number>—GENCFG blob minor number.

<type>—Resource type name.

<resource-type>

Usage

```
<system-resource-cleanup-resources-information>
  <resource-type>
    <type>type</type>
  </resource-type>
</system-resource-cleanup-resources-information>
```

Description Type of resource.

Contents <type>—Resource type name.

<system-resource-cleanup-processes-information>

Usage

```
<rpc-reply>
  <system-resource-cleanup-processes-information>
    <process-resource-cleanup>...</process-resource-cleanup>
  </system-resource-cleanup-processes-information>
</rpc-reply>
```

Description Resource clean up information for one or more processes.

Contents <process-resource-cleanup>—Resource clean up information for a process.

<system-resource-cleanup-resources-information>

Usage

```
<rpc-reply>
  <system-resource-cleanup-resources-information>
    <resource-type>...</resource-type>
  </system-resource-cleanup-resources-information>
</rpc-reply>
```

Description Resources types that can be cleaned up.

Contents <resource-type>—Type of resource.

Summary of Routing and Forwarding Table Response Tags

This section lists JUNOS XML tags that contain operational information about routing and forwarding tables. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-rtinfo. To review the DTD for the tags, see "DTD for Routing and Forwarding Table Response Tags" on page 2459.

<bridge-mac-destination-address-statistics>

Usage

```
<rt-entry>
  <bridge-mac-destination-address-statistics>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </bridge-mac-destination-address-statistics>
</rt-entry>
```

Description MAC destination address statistics.

Contents <byte-count>—Byte count.

<packet-count>—Packet count.

<bridge-mac-source-address-statistics>

Usage

```
<rt-entry>
  <bridge-mac-source-address-statistics>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </bridge-mac-source-address-statistics>
</rt-entry>
```

Description MAC source address statistics.

Contents <byte-count>—Byte count.

<packet-count>—Packet count.

<forwarding-table-information>

Usage

```
<rpc-reply>
  <forwarding-table-information>
    <route-table>...</route-table>
  </forwarding-table-information>
</rpc-reply>
```

Description Information about forwarding-table routing entries.

Contents <route-table>—Denotes a routing table.

<nh>

Usage

```
<rt-entry>
  <nh>
    <to>to</to>
    <nh-type>nh-type</nh-type>
    <nh-index>nh-index</nh-index>
    <nh-reference-count>nh-reference-count</nh-reference-count>
    <nh-cfi-index>nh-cfi-index</nh-cfi-index>
    <via>via</via>
    <nh-weight>nh-weight</nh-weight>
    <nh-balance>nh-balance</nh-balance>
    <nh-uflags>nh-uflags</nh-uflags>
    <nh-composite-num-nhs>nh-composite-num-nhs</nh-composite-num-nhs>
    <nh-composite-nh-index>nh-composite-nh-index</nh-composite-nh-index>
    <nh-composite-function>nh-composite-function</nh-composite-function>
    <nh-composite-num-derived-nhs>nh-composite-num-derived-nhs
                </nh-composite-num-derived-nhs>
    <nh-composite-derived-nh-index>nh-composite-derived-nh-index
                </nh-composite-derived-nh-index>
    <alt-fwdnh-index>alt-fwdnh-index</alt-fwdnh-index>
    <nh-l3-interface>nh-l3-interface</nh-l3-interface>
    <nh-l2-interface>...</nh-l2-interface>
  </nh>
</rt-entry>
```

Description Next hop for this routing table entry.

Contents

<alt-fwdnh-index>—Alternate forward Index in next-hop table.

<nh-balance>—Next-hop balance.

<nh-cfi-index>—Next-hop core-facing-interface index.

<nh-composite-derived-nh-index>—Index of derived next hops in a composite next hop.

<nh-composite-function>—Composition function for next hops in a composite next hop.

<nh-composite-nh-index>—Index of next hops in a composite next hop.

<nh-composite-num-derived-nhs>—Number of derived next hops for a composite next hop.

<nh-composite-num-nhs>—Number of next hops in a composite next hop.

<nh-index>—Index in next-hop table.

<nh-l2-interface>—No documentation is available yet.

<nh-l3-interface>—Next-hop L3 interface.

<nh-reference-count>—Next-hop reference count.

<nh-type>—Next-hop type.

<nh-uflags>—Next-hop uflags.

<nh-weight>—Next-hop weight.

<to>—Next-hop address for this entry.

<via>—Network interface name.

<nh-l2-interface>

Usage

```
<nh>
  <nh-l2-interface>
    <nh-l2-interface-name>nh-l2-interface-name</nh-l2-interface-name>
  </nh-l2-interface>
</nh>
```

Description No documentation is available yet.

Contents <nh-l2-interface-name>—Next-hop L2 interface.

<route-table>

Usage

```
<forwarding-table-information>
  <route-table>
    <logical-system-name>logical-system-name</logical-system-name>
    <table-name>table-name</table-name>
    <bd-name>bd-name</bd-name>
    <route-table-deleted/>
    <bridge-table-deleted/>
    <address-family>address-family</address-family>
    <address-family-number>address-family-number</address-family-number>
    <rt-entry>...</rt-entry>
    <route-table-summary>...</route-table-summary>
  </route-table>
</forwarding-table-information>
```

Description Denotes a routing table.

Contents <address-family>—Address family for this routing table.

<address-family-number>—If the address family name is unknown, print the number.

<bd-name>—Name of this bridging domain.

<bridge-table-deleted>—Whether this bridge table has been deleted.

<logical-system-name>—Name of this logical system.

<route-table-deleted>—Whether this routing table has been deleted.

<route-table-summary>—Routing table summary.

<rt-entry>—Routing table entry for a destination.

<table-name>—Name of this routing table.

<route-table-summary>

Usage

```
<route-table>
  <route-table-summary>
    <route-table-type>route-table-type</route-table-type>
    <route-count>route-count</route-count>
  </route-table-summary>
</route-table>
```

Description Routing table summary.

Contents <route-count>—Number of routes in this routing table.

<route-table-type>—Type for this routing table.

<rpf-information>

Usage

```
<rt-entry>
  <rpf-information>
    <via>via</via>
  </rpf-information>
</rt-entry>
```

Description Reverse-path forwarding check for this route.

Contents <via>—Network interface name.

<rt-entry>

Usage

```
<route-table>
  <rt-entry>
    <rt-destination>rt-destination</rt-destination>
    <learn-vlan>learn-vlan</learn-vlan>
    <destination-type>destination-type</destination-type>
    <route-reference-count>route-reference-count</route-reference-count>
    <route-interface-index>route-interface-index</route-interface-index>
    <ifl-generation>ifl-generation</ifl-generation>
    <epoch>epoch</epoch>
    <mac-sequence-number>mac-sequence-number</mac-sequence-number>
    <learn-mask>learn-mask</learn-mask>
    <l2al-rtflags>l2al-rtflags</l2al-rtflags>
    <route-flags>route-flags</route-flags>
    <nh>...</nh>
    <rpf-information>...</rpf-information>
    <vpls-mac-source-address-statistics>...</vpls-mac-source-address-statistics>
    <vpls-mac-destination-address-statistics>...
                </vpls-mac-destination-address-statistics>
    <bridge-mac-source-address-statistics>...
                </bridge-mac-source-address-statistics>
    <bridge-mac-destination-address-statistics>...
                </bridge-mac-destination-address-statistics>
  </rt-entry>
</route-table>
```

Description Routing table entry for a destination.

Contents <bridge-mac-destination-address-statistics>—MAC destination address statistics.

<bridge-mac-source-address-statistics>—MAC source address statistics.

<destination-type>—Destination type for this entry.

<epoch>—Time when this MAC was learned.

<ifl-generation>—Creation time of the IFL when this MAC was learned.

<l2al-rtflags>—Route flags associated with MAC routes.

<learn-mask>—Mask of PFEs where this MAC was learned.

<learn-vlan>—VLAN ID in the routing instance in which the MAC address was learned.

<mac-sequence-number>—Sequence number assigned to this MAC.

<nh>—Next hop for this routing table entry.

<route-flags>—Flags associated with this route entry.

<route-interface-index>—Interface referenced by this route.

<route-reference-count>—Reference count for this destination entry.

<rpf-information>—Reverse-path forwarding check for this route.

<rt-destination>—Destination address.

<vpls-mac-destination-address-statistics>—MAC destination address statistics.

<vpls-mac-source-address-statistics>—MAC source address statistics.

<vpls-mac-destination-address-statistics>

Usage
```
<rt-entry>
  <vpls-mac-destination-address-statistics>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </vpls-mac-destination-address-statistics>
</rt-entry>
```

Description MAC destination address statistics.

Contents <byte-count>—Byte count.

<packet-count>—Packet count.

<vpls-mac-source-address-statistics>

Usage
```
<rt-entry>
  <vpls-mac-source-address-statistics>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
  </vpls-mac-source-address-statistics>
</rt-entry>
```

Description MAC source address statistics.

Contents <byte-count>—Byte count.

<packet-count>—Packet count.

Summary of Routing Protocols Response Tags

This section lists JUNOS XML tags that contain operational information about routing protocols. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-routing. To review the DTD for the tags, see "DTD for Routing Protocols Response Tags" on page 2349.

<accepted-prefix-limit>

Usage

```
<bgp-option-information>
  <accepted-prefix-limit>
    <nlri-type>nlri-type</nlri-type>
    <prefix-count>prefix-count</prefix-count>
    <limit-action>limit-action</limit-action>
    <warning-percentage>warning-percentage</warning-percentage>
  </accepted-prefix-limit>
</bgp-option-information>
```

Description Limit number of prefixes accepted by policy.

Contents <limit-action>—Action taken upon reaching limit.

<nlri-type>—Type of NLRI being limited.

<prefix-count>—Number of prefixes accepted before action is taken.

<warning-percentage>—Percentage of limit at which to log a warning.

<admin-groups>

Usage

```
<isis-reachability-subtlv | mpls-lsp | mpls-lsp-path | ted-link>
  <admin-groups>
    <color>color</color>
    <no-group-flag/>
    <admin-group-name>admin-group-name</admin-group-name>
    <admin-group-number>admin-group-number</admin-group-number>
  </admin-groups>
</isis-reachability-subtlv | mpls-lsp | mpls-lsp-path | ted-link>
```

Description No documentation is available yet.

Contents <admin-group-name>—Name of the admin group.

<admin-group-number>—Number of the admin group.

<color>—No documentation is available yet.

<no-group-flag>—No documentation is available yet.

<aggregate>

Usage

```
<rt-entry>
  <aggregate>
    <aggregate-flags>aggregate-flags</aggregate-flags>
    <aggregate-depth>aggregate-depth</aggregate-depth>
    <aggregate-active/>
    <aggregate-as-path>...</aggregate-as-path>
    <contributing-route-count>contributing-route-count</contributing-route-count>
    <aggregated-route>...</aggregated-route>
  </aggregate>
</rt-entry>
```

Description No documentation is available yet.

Contents <aggregate-active>—Present if this aggregate is active.

<aggregate-as-path>—No documentation is available yet.

<aggregate-depth>—Depth of this aggregate.

<aggregate-flags>—Flags on this aggregate route entry.

<aggregated-route>—No documentation is available yet.

<contributing-route-count>—Number of contributing routes in this aggregate.

<aggregate-as-path>

Usage

```
<aggregate>
  <aggregate-as-path>
    <as-path>as-path</as-path>
    <reference-count>reference-count</reference-count>
  </aggregate-as-path>
</aggregate>
```

Description No documentation is available yet.

Contents <as-path>—AS path of this route.

<reference-count>—No documentation is available yet.

<aggregated-route>

Usage
```
<aggregate>
  <aggregated-route>
    <destination-prefix>destination-prefix</destination-prefix>
    <protocol-name>protocol-name</protocol-name>
  </aggregated-route>
</aggregate>
```

Description No documentation is available yet.

Contents <destination-prefix>—Destination prefix and mask.

<protocol-name>—No documentation is available yet.

<area-address-tlv>

Usage
```
<isis-tlv>
  <area-address-tlv>
    <address>address</address>
    <tlv-length>tlv-length</tlv-length>
  </area-address-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<aspath-bucket>

Usage
```
<aspath-table>
  <aspath-bucket>
    <aspath-entry>...</aspath-entry>
    <bucket>bucket</bucket>
    <count>count</count>
  </aspath-bucket>
</aspath-table>
```

Description No documentation is available yet.

Contents <aspath-entry>—No documentation is available yet.

<bucket>—Hash bucket.

<count>—Number of entries.

<aspath-domain>

Usage

```
<juniper-routing-aspath>
  <aspath-domain>
    <identifier>identifier</identifier>
    <domain-flags>domain-flags</domain-flags>
    <primary>primary</primary>
    <references>references</references>
    <path-count>path-count</path-count>
    <local-asn>...</local-asn>
  </aspath-domain>
</juniper-routing-aspath>
```

Description No documentation is available yet.

Contents

<domain-flags>—No documentation is available yet.

<identifier>—Domain identifier.

<local-asn>—No documentation is available yet.

<path-count>—Number of AS paths.

<primary>—Primary autonomous system.

<references>—Instance references.

<aspath-entry>

Usage

```
<aspath-bucket>
  <aspath-entry>
    <as-path>as-path</as-path>
    <domain>domain</domain>
    <path-references>path-references</path-references>
    <length>length</length>
    <segments>segments</segments>
    <overhead>overhead</overhead>
    <compare-length>compare-length</compare-length>
    <neighbor-as>neighbor-as</neighbor-as>
    <entry-state>entry-state</entry-state>
  </aspath-entry>
</aspath-bucket>
```

Description No documentation is available yet.

Contents <as-path>—AS path of this route.

<compare-length>—Comparison length.

<domain>—Domain identifier.

<entry-state>—No documentation is available yet.

<length>—Number of ASs in path.

<neighbor-as>—Neighbor autonomous system.

<overhead>—Memory allocation overhead.

<path-references>—Reference count.

<segments>—Number of AS path segments.

<aspath-table>

Usage

```
<juniper-routing-aspath>
  <aspath-table>
    <path-count>path-count</path-count>
    <bucket-count>bucket-count</bucket-count>
    <bucket-max-entries>bucket-max-entries</bucket-max-entries>
    <bucket-min-entries>bucket-min-entries</bucket-min-entries>
    <bucket-avg-entries>bucket-avg-entries</bucket-avg-entries>
    <bucket-std-deviation>bucket-std-deviation</bucket-std-deviation>
    <aspath-bucket>...</aspath-bucket>
  </aspath-table>
</juniper-routing-aspath>
```

Description No documentation is available yet.

Contents <aspath-bucket>—No documentation is available yet.

<bucket-avg-entries>—Average number of entries per bucket.

<bucket-count>—Number of hash buckets in use.

<bucket-max-entries>—Maximum number of entries per bucket.

<bucket-min-entries>—Minimum number of entries per bucket.

<bucket-std-deviation>—Standard deviation of entries per bucket.

<path-count>—Number of AS paths.

<attrset>

Usage

```
<rt-entry>
  <attrset>
    <attrset-as>attrset-as</attrset-as>
    <med>med</med>
    <local-preference>local-preference</local-preference>
    <as-path>as-path</as-path>
    <communities>...</communities>
    <cluster-id>cluster-id</cluster-id>
    <pmsi>pmsi</pmsi>
    <originator>originator</originator>
  </attrset>
</rt-entry>
```

Description No documentation is available yet.

Contents <as-path>—AS path of this route.

<attrset-as>—Originator AS.

<cluster-id>—No documentation is available yet.

<communities>—No documentation is available yet.

<local-preference>—No documentation is available yet.

<med>—Multiple exit discriminator.

<originator>—No documentation is available yet.

<pmsi>—P-multicast service interface.

<authentication-tlv>

Usage

```
<isis-tlv>
  <authentication-tlv>
    <tlv-length>tlv-length</tlv-length>
  </authentication-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <tlv-length>—No documentation is available yet.

<*automatic-site-timers*>

Usage

```
<reference-site>
  <automatic-site-timers>
    <automatic-site-startup-wait-time>automatic-site-startup-wait-time
                </automatic-site-startup-wait-time>
    <automatic-site-new-site-wait-time>automatic-site-new-site-wait-time
                </automatic-site-new-site-wait-time>
    <automatic-site-collision-detect-time>automatic-site-collision-detect-time
                </automatic-site-collision-detect-time>
    <automatic-site-reclaim-wait-time>automatic-site-reclaim-wait-time
                </automatic-site-reclaim-wait-time>
  </automatic-site-timers>
</reference-site>
```

Description No documentation is available yet.

Contents <automatic-site-collision-detect-time>—No documentation is available yet.

<automatic-site-new-site-wait-time>—No documentation is available yet.

<automatic-site-reclaim-wait-time>—No documentation is available yet.

<automatic-site-startup-wait-time>—No documentation is available yet.

<*backup-next-hop-element*>

Usage

```
<isis-backup-spf-result>
  <backup-next-hop-element>
    <interface-name>interface-name</interface-name>
    <isis-next-hop-type>isis-next-hop-type</isis-next-hop-type>
    <isis-next-hop>isis-next-hop</isis-next-hop>
    <snpa>snpa</snpa>
  </backup-next-hop-element>
</isis-backup-spf-result>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<isis-next-hop>—No documentation is available yet.

<isis-next-hop-type>—No documentation is available yet.

<snpa>—No documentation is available yet.

<backup-pes>

Usage
```
<multicast-backup-pe-group>
  <backup-pes>
    <multicast-backup-pe-address>multicast-backup-pe-address
                    </multicast-backup-pe-address>
  </backup-pes>
</multicast-backup-pe-group>
```

Description Backup PE addresses.

Contents <multicast-backup-pe-address>—Backup PE address.

<bgp-bfd>

Usage
```
<bgp-peer>
  <bgp-bfd>
    <bfd-configuration-state>bfd-configuration-state</bfd-configuration-state>
    <bfd-operational-state>bfd-operational-state</bfd-operational-state>
  </bgp-bfd>
</bgp-peer>
```

Description No documentation is available yet.

Contents <bfd-configuration-state>—BFD configuration state for the BGP session.

<bfd-operational-state>—BFD operational state for the BGP session.

<bgp-bmp-information>

Usage
```
<rpc-reply>
  <bgp-bmp-information>
    <bmp-addr-port>bmp-addr-port</bmp-addr-port>
    <bmp-state>bmp-state</bmp-state>
    <bmp-memory-consumed>bmp-memory-consumed</bmp-memory-consumed>
    <bmp-statistics-timeout>bmp-statistics-timeout</bmp-statistics-timeout>
    <bmp-memory-limit>bmp-memory-limit</bmp-memory-limit>
    <bmp-memory-delay>bmp-memory-delay</bmp-memory-delay>
  </bgp-bmp-information>
</rpc-reply>
```

Description BGP BMP configuration and operational information.

Contents <bmp-addr-port>—No documentation is available yet.

<bmp-memory-consumed>—No documentation is available yet.

<bmp-memory-delay>—No documentation is available yet.

<bmp-memory-limit>—No documentation is available yet.

<bmp-state>—No documentation is available yet.

<bmp-statistics-timeout>—No documentation is available yet.

<bgp-error>

Usage

```
<bgp-peer>
  <bgp-error>
    <name>name</name>
    <send-count>send-count</send-count>
    <receive-count>receive-count</receive-count>
  </bgp-error>
</bgp-peer>
```

Description No documentation is available yet.

Contents <name>—No documentation is available yet.

<receive-count>—No documentation is available yet.

<send-count>—No documentation is available yet.

<bgp-group>

Usage

```
<bgp-group-information>
  <bgp-group>
    <type>type</type>
    <peer-as>peer-as</peer-as>
    <local-as>local-as</local-as>
    <group-index>group-index</group-index>
    <group-state>group-state</group-state>
    <name>name</name>
    <bgp-options>bgp-options</bgp-options>
    <bgp-options2>bgp-options2</bgp-options2>
    <group-flags>group-flags</group-flags>
    <peer-count>peer-count</peer-count>
    <established-count>established-count</established-count>
    <peer-address>peer-address</peer-address>
    <flap-count>flap-count</flap-count>
    <unconfigured-peers>...</unconfigured-peers>
    <igp-protocol>igp-protocol</igp-protocol>
    <route-queue>...</route-queue>
    <bgp-peer>...</bgp-peer>
    <bgp-option-information>...</bgp-option-information>
    <tracing-information>...</tracing-information>
    <bgp-rib>...</bgp-rib>
  </bgp-group>
</bgp-group-information>
```

Description Operational and configuration information for a BGP group.

Contents <bgp-option-information>—Configured BGP options.

<bgp-options>—No documentation is available yet.

<bgp-options2>—No documentation is available yet.

<bgp-peer>—Operational and configuration information for a BGP peer.

<bgp-rib>—No documentation is available yet.

<established-count>—Number of peers within the group that are in the established state.

<flap-count>—Number of times the BGP session has gone down.

<group-flags>—Internal BGP group flags.

<group-index>—No documentation is available yet.

<group-state>—No documentation is available yet.

<igp-protocol>—No documentation is available yet.

<local-as>—Local AS number.

<name>—No documentation is available yet.

<peer-address>—Address of the BGP peer, followed by its port number.

<peer-as>—Peer AS number.

<peer-count>—Total number of peers.

<route-queue>—No documentation is available yet.

<tracing-information>—No documentation is available yet.

<type>—No documentation is available yet.

<unconfigured-peers>—Set of address prefixes from which this group allows peering.

<bgp-group-information>

Usage

```
<rpc-reply>
  <bgp-group-information>
    <bgp-group>...</bgp-group>
    <bgp-information>...</bgp-information>
  </bgp-group-information>
</rpc-reply>
```

Description Operational and configuration information for BGP groups.

Contents <bgp-group>—Operational and configuration information for a BGP group.

<bgp-information>—Operational and configuration information for BGP.

<bgp-information>

Usage

```
<bgp-group-information>
  <bgp-information>
    <group-count>group-count</group-count>
    <peer-count>peer-count</peer-count>
    <external-peer-count>external-peer-count</external-peer-count>
    <internal-peer-count>internal-peer-count</internal-peer-count>
    <down-peer-count>down-peer-count</down-peer-count>
    <unconfigured-peer-count>unconfigured-peer-count</unconfigured-peer-count>
    <half-open-peer-count>half-open-peer-count</half-open-peer-count>
    <igp-converging/>
    <flap-count>flap-count</flap-count>
    <bgp-rib>...</bgp-rib>
    <bgp-peer>...</bgp-peer>
  </bgp-information>
</bgp-group-information>
```

Description Operational and configuration information for BGP.

Contents

<bgp-peer>—Operational and configuration information for a BGP peer.

<bgp-rib>—No documentation is available yet.

<down-peer-count>—No documentation is available yet.

<external-peer-count>—No documentation is available yet.

<flap-count>—Number of times the BGP session has gone down.

<group-count>—No documentation is available yet.

<half-open-peer-count>—No documentation is available yet.

<igp-converging>—This tag is present if BGP is quenched because the IGP is still converging.

<internal-peer-count>—No documentation is available yet.

<peer-count>—Total number of peers.

<unconfigured-peer-count>—No documentation is available yet.

<bgp-option-information>

Usage

```
<bgp-peer | bgp-group>
  <bgp-option-information>
    <export-policy>export-policy</export-policy>
    <import-policy>import-policy</import-policy>
    <bgp-options>bgp-options</bgp-options>
    <bgp-options2>bgp-options2</bgp-options2>
    <authentication-key>authentication-key</authentication-key>
    <authentication-key-chain>authentication-key-chain</authentication-key-chain>
    <authentication-algorithm>authentication-algorithm</authentication-algorithm>
    <authentication-configured/>
    <address-families>address-families</address-families>
    <local-address>local-address</local-address>
    <holdtime>holdtime</holdtime>
    <metric-out>metric-out</metric-out>
    <preference>preference</preference>
    <local-preference>local-preference</local-preference>
    <prefix-limit>...</prefix-limit>
    <accepted-prefix-limit>...</accepted-prefix-limit>
    <nlri-information>...</nlri-information>
    <local-as>local-as</local-as>
    <local-as-private/>
    <local-system-as>local-system-as</local-system-as>
    <receive-buffer-size>receive-buffer-size</receive-buffer-size>
    <send-buffer-size>send-buffer-size</send-buffer-size>
    <outbound-timer>outbound-timer</outbound-timer>
    <med-action>med-action</med-action>
    <ipsec-sa>ipsec-sa</ipsec-sa>
  </bgp-option-information>
</bgp-peer | bgp-group>
```

Description Configured BGP options.

Contents

<accepted-prefix-limit>—Limit number of prefixes accepted by policy.

<address-families>—No documentation is available yet.

<authentication-algorithm>—Name of authentication algorithm.

<authentication-configured>—No documentation is available yet.

<authentication-key>—No documentation is available yet.

<authentication-key-chain>—Name of authentication key chain.

<bgp-options>—No documentation is available yet.

<bgp-options2>—No documentation is available yet.

<export-policy>—No documentation is available yet.

<holdtime>—Hold time configured with the hold-time statement. The default hold time is 90 seconds. The hold time is three times the interval at which keepalive messages are sent.

<import-policy>—No documentation is available yet.

<ipsec-sa>—No documentation is available yet.

<local-address>—No documentation is available yet.

<local-as>—Local AS number.

<local-as-private>—No documentation is available yet.

<local-preference>—No documentation is available yet.

<local-system-as>—No documentation is available yet.

<med-action>—No documentation is available yet.

<metric-out>—No documentation is available yet.

<nlri-information>—No documentation is available yet.

<outbound-timer>—No documentation is available yet.

<preference>—Preference value configured with the preference statement. The default preference value is 170.

<prefix-limit>—No documentation is available yet.

<receive-buffer-size>—No documentation is available yet.

<send-buffer-size>—No documentation is available yet.

<bgp-orf>

Usage

```
<bgp-orf-information>
  <bgp-orf>
    <peer-address>peer-address</peer-address>
    <peer-type>peer-type</peer-type>
    <group-name>group-name</group-name>
    <bgp-orf-nlri-info>...</bgp-orf-nlri-info>
  </bgp-orf>
</bgp-orf-information>
```

Description No documentation is available yet.

Contents <bgp-orf-nlri-info>—No documentation is available yet.

<group-name>—No documentation is available yet.

<peer-address>—Address of the BGP peer, followed by its port number.

<peer-type>—No documentation is available yet.

<bgp-orf-extcomm-filter>

Usage
```
<bgp-orf-filter-info>
  <bgp-orf-extcomm-filter>
    <extended-community>extended-community</extended-community>
  </bgp-orf-extcomm-filter>
</bgp-orf-filter-info>
```

Description No documentation is available yet.

Contents <extended-community>—Extended community.

<bgp-orf-filter-info>

Usage
```
<bgp-orf-filter-information>
  <bgp-orf-filter-info>
    <bgp-orf-extcomm-filter>...</bgp-orf-extcomm-filter>
    <bgp-orf-prefix-filter>...</bgp-orf-prefix-filter>
  </bgp-orf-filter-info>
</bgp-orf-filter-information>
```

Description No documentation is available yet.

Contents <bgp-orf-extcomm-filter>—No documentation is available yet.

<bgp-orf-prefix-filter>—No documentation is available yet.

<bgp-orf-filter-information>

Usage
```
<bgp-orf-nlri-info>
  <bgp-orf-filter-information>
    <filter-type>filter-type</filter-type>
    <filter-mode>filter-mode</filter-mode>
    <filter-in-updates>filter-in-updates</filter-in-updates>
    <filter-out-updates>filter-out-updates</filter-out-updates>
    <filter-qcount>filter-qcount</filter-qcount>
    <bgp-orf-filter-info>...</bgp-orf-filter-info>
  </bgp-orf-filter-information>
</bgp-orf-nlri-info>
```

Description No documentation is available yet.

Contents <bgp-orf-filter-info>—No documentation is available yet.

<filter-in-updates>—No documentation is available yet.

<filter-mode>—No documentation is available yet.

<filter-out-updates>—No documentation is available yet.

<filter-qcount>—No documentation is available yet.

<filter-type>—No documentation is available yet.

<bgp-orf-information>

Usage
```
<rpc-reply>
  <bgp-orf-information>
    <bgp-orf>...</bgp-orf>
  </bgp-orf-information>
</rpc-reply>
```

Description Operational information on BGP Outbound Route filtering.

Contents <bgp-orf>—No documentation is available yet.

<bgp-orf-nlri-info>

Usage
```
<bgp-orf>
  <bgp-orf-nlri-info>
    <nlri-name>nlri-name</nlri-name>
    <filter-in-updates>filter-in-updates</filter-in-updates>
    <filter-out-updates>filter-out-updates</filter-out-updates>
    <filter-qcount>filter-qcount</filter-qcount>
    <immediate-count>immediate-count</immediate-count>
    <bgp-orf-filter-information>...</bgp-orf-filter-information>
  </bgp-orf-nlri-info>
</bgp-orf>
```

Description No documentation is available yet.

Contents <bgp-orf-filter-information>—No documentation is available yet.

<filter-in-updates>—No documentation is available yet.

<filter-out-updates>—No documentation is available yet.

<filter-qcount>—No documentation is available yet.

<immediate-count>—No documentation is available yet.

<nlri-name>—No documentation is available yet.

<bgp-orf-prefix-filter>

Usage
```
<bgp-orf-filter-info>
  <bgp-orf-prefix-filter>
    <prefix-orf>prefix-orf</prefix-orf>
  </bgp-orf-prefix-filter>
</bgp-orf-filter-info>
```

Description No documentation is available yet.

Contents <prefix-orf>—Prefix-based outbound route filter.

<bgp-output-queue>

Usage

```
<bgp-peer>
  <bgp-output-queue>
    <number>number</number>
    <count>count</count>
  </bgp-output-queue>
</bgp-peer>
```

Description Number of BGP packets that are queued to be transmitted to a particular neighbor for a particular routing table.

Contents <count>—Number of entries.

<number>—No documentation is available yet.

<bgp-peer>

Usage <bgp-information | bgp-group>
<bgp-peer>
<peer-address>*peer-address*</peer-address>
<peer-as>*peer-as*</peer-as>
<local-address>*local-address*</local-address>
<local-as>*local-as*</local-as>
<description>*description*</description>
<peer-type>*peer-type*</peer-type>
<route-reflector-client/>
<peer-state>*peer-state*</peer-state>
<peer-flags>*peer-flags*</peer-flags>
<last-state>*last-state*</last-state>
<last-event>*last-event*</last-event>
<last-error>*last-error*</last-error>
<bgp-option-information>...</bgp-option-information>
<flap-count>*flap-count*</flap-count>
<last-flap-event>*last-flap-event*</last-flap-event>
<peer-id>*peer-id*</peer-id>
<local-id>*local-id*</local-id>
<active-holdtime>*active-holdtime*</active-holdtime>
<keepalive-interval>*keepalive-interval*</keepalive-interval>
<peer-index>*peer-index*</peer-index>
<bgp-bfd>...</bgp-bfd>
<local-interface-name>*local-interface-name*</local-interface-name>
<local-interface-index>*local-interface-index*</local-interface-index>
<nlri-type-peer>*nlri-type-peer*</nlri-type-peer>
<nlri-type-session>*nlri-type-session*</nlri-type-session>
<peer-no-refresh/>
<peer-refresh-capability>*peer-refresh-capability*</peer-refresh-capability>
<peer-4byte-as-capability-not-supported/>
<peer-4byte-as-capability-advertised>*peer-4byte-as-capability-advertised*
</peer-4byte-as-capability-advertised>
<peer-restart-nlri-configured>*peer-restart-nlri-configured*
</peer-restart-nlri-configured>
<peer-restart-time-configured>*peer-restart-time-configured*
</peer-restart-time-configured>
<peer-stale-route-time-configured>*peer-stale-route-time-configured*
</peer-stale-route-time-configured>
<peer-restart-time-received>*peer-restart-time-received*
</peer-restart-time-received>
<peer-restart-flags-received>*peer-restart-flags-received*
</peer-restart-flags-received>
<peer-restart-nlri-received>*peer-restart-nlri-received*
</peer-restart-nlri-received>
<peer-restart-nlri-can-save-state>*peer-restart-nlri-can-save-state*
</peer-restart-nlri-can-save-state>
<peer-restart-nlri-state-saved>*peer-restart-nlri-state-saved*
</peer-restart-nlri-state-saved>
<peer-no-restart/>
<peer-restart-nlri-negotiated>*peer-restart-nlri-negotiated*
</peer-restart-nlri-negotiated>
<peer-end-of-rib-received>*peer-end-of-rib-received*</peer-end-of-rib-received>

```
        <peer-end-of-rib-sent>peer-end-of-rib-sent</peer-end-of-rib-sent>
        <peer-end-of-rib-scheduled>peer-end-of-rib-scheduled
                        </peer-end-of-rib-scheduled>
        <last-received>last-received</last-received>
        <last-sent>last-sent</last-sent>
        <last-checked>last-checked</last-checked>
        <input-messages>input-messages</input-messages>
        <input-updates>input-updates</input-updates>
        <input-refreshes>input-refreshes</input-refreshes>
        <input-octets>input-octets</input-octets>
        <output-messages>output-messages</output-messages>
        <output-updates>output-updates</output-updates>
        <output-refreshes>output-refreshes</output-refreshes>
        <output-octets>output-octets</output-octets>
        <buffered-octets-rx>buffered-octets-rx</buffered-octets-rx>
        <buffered-octets-tx>buffered-octets-tx</buffered-octets-tx>
        <bgp-output-queue>...</bgp-output-queue>
        <route-queue-count>route-queue-count</route-queue-count>
        <bgp-rib>...</bgp-rib>
        <elapsed-time>elapsed-time</elapsed-time>
        <extended-information>extended-information</extended-information>
        <bgp-error>...</bgp-error>
        <route-queue>...</route-queue>
        <tracing-information>...</tracing-information>
      </bgp-peer>
    </bgp-information | bgp-group>
```

Description Operational and configuration information for a BGP peer.

Contents <active-holdtime>—Hold time the local router negotiated with the peer.

<bgp-bfd>—No documentation is available yet.

<bgp-error>—No documentation is available yet.

<bgp-option-information>—Configured BGP options.

<bgp-output-queue>—Number of BGP packets that are queued to be transmitted to a particular neighbor for a particular routing table.

<bgp-rib>—No documentation is available yet.

<buffered-octets-rx>—Number of octets that have been received and are still buffered.

<buffered-octets-tx>—Number of octets in the transmit buffer.

<description>—No documentation is available yet.

<elapsed-time>—Time this adjacency or session has been up or down.

<extended-information>—No documentation is available yet.

<flap-count>—Number of times the BGP session has gone down.

<input-messages>—Total number of messages received from the receive socket buffer.

<input-octets>—Number of octets received from the receive socket buffer.

<input-refreshes>—Number of refresh messages received from the receive socket buffer.

<input-updates>—Number of update messages received from the receive socket buffer.

<keepalive-interval>—No documentation is available yet.

<last-checked>—No documentation is available yet.

<last-error>—Last error that occurred in the BGP session.

<last-event>—Last activity that occurred in the BGP session.

<last-flap-event>—Event that caused the last BGP session flap.

<last-received>—No documentation is available yet.

<last-sent>—No documentation is available yet.

<last-state>—Previous state of the BGP session.

<local-address>—No documentation is available yet.

<local-as>—Local AS number.

<local-id>—Router identifier of the local router.

<local-interface-index>—SNMP ifIndex of local interface.

<local-interface-name>—Logical interface name.

<nlri-type-peer>—Types of NLRIs supported by the peer: unicast or multicast.

<nlri-type-session>—Types of NLRIs being used for this session.

<output-messages>—Total number of messages written to the receive socket buffer.

<output-octets>—Number of octets written to the receive socket buffer.

<output-refreshes>—Number of refresh messages written to the receive socket buffer.

<output-updates>—Number of update messages written to the receive socket buffer.

<peer-4byte-as-capability-advertised>—4 byte Autonomous System capability advertised by this peer.

<peer-4byte-as-capability-not-supported>—This peer does not support 4 byte AS extension.

<peer-address>—Address of the BGP peer, followed by its port number.

<peer-as>—Peer AS number.

<peer-end-of-rib-received>—Types of NLRIs for which peer received an end-of-rib marker.

<peer-end-of-rib-scheduled>—Types of NLRIs for which peer scheduled an end-of-rib marker.

<peer-end-of-rib-sent>—Types of NLRIs for which peer sent an end-of-rib marker.

<peer-flags>—Internal BGP flags.

<peer-id>—Router identifier of the peer.

<peer-index>—Index of this peer in its group.

<peer-no-refresh>—Present if this peer does not support refresh.

<peer-no-restart>—Present if this peer does not support graceful restart.

<peer-refresh-capability>—Version of refresh capability supported by this peer.

<peer-restart-flags-received>—Flags received from this peer in its restart capability.

<peer-restart-nlri-can-save-state>—Types of NLRIs for which peer can save forwarding state.

<peer-restart-nlri-configured>—Types of NLRIs for which restart is locally configured.

<peer-restart-nlri-negotiated>—Types of NLRIs for which restart negotiated with peer.

<peer-restart-nlri-received>—Types of NLRIs for which restart was advertised by peer.

<peer-restart-nlri-state-saved>—Types of NLRIs for which peer saved all forwarding state.

<peer-restart-time-configured>—Restart time configured locally for this peer.

<peer-restart-time-received>—Restart time requested by peer in its restart capability.

<peer-stale-route-time-configured>—Maximum time for which stale routes from peer are kept.

<peer-state>—Current state of the BGP session.

<peer-type>—No documentation is available yet.

<route-queue>—No documentation is available yet.

<route-queue-count>—Total number of routes queued for output to this peer.

<route-reflector-client>—No documentation is available yet.

<tracing-information>—No documentation is available yet.

<bgp-rib>

Usage

```
<bgp-information | bgp-peer | bgp-group>
  <bgp-rib>
    <name>name</name>
    <rib-bit>rib-bit</rib-bit>
    <bgp-rib-state>bgp-rib-state</bgp-rib-state>
    <vpn-rib-state>vpn-rib-state</vpn-rib-state>
    <send-state>send-state</send-state>
    <total-external-prefix-count>total-external-prefix-count
            </total-external-prefix-count>
    <active-external-prefix-count>active-external-prefix-count
            </active-external-prefix-count>
    <accepted-external-prefix-count>accepted-external-prefix-count
            </accepted-external-prefix-count>
    <suppressed-external-prefix-count>suppressed-external-prefix-count
            </suppressed-external-prefix-count>
    <total-internal-prefix-count>total-internal-prefix-count
            </total-internal-prefix-count>
    <active-internal-prefix-count>active-internal-prefix-count
            </active-internal-prefix-count>
    <accepted-internal-prefix-count>accepted-internal-prefix-count
            </accepted-internal-prefix-count>
    <suppressed-internal-prefix-count>suppressed-internal-prefix-count
            </suppressed-internal-prefix-count>
    <total-prefix-count>total-prefix-count</total-prefix-count>
    <active-prefix-count>active-prefix-count</active-prefix-count>
    <received-prefix-count>received-prefix-count</received-prefix-count>
    <accepted-prefix-count>accepted-prefix-count</accepted-prefix-count>
    <damped-prefix-count>damped-prefix-count</damped-prefix-count>
    <suppressed-prefix-count>suppressed-prefix-count</suppressed-prefix-count>
    <history-prefix-count>history-prefix-count</history-prefix-count>
    <pending-prefix-count>pending-prefix-count</pending-prefix-count>
    <advertised-prefix-count>advertised-prefix-count</advertised-prefix-count>
  </bgp-rib>
</bgp-information | bgp-peer | bgp-group>
```

Description No documentation is available yet.

Contents <accepted-external-prefix-count>—Number of accepted prefixes received from external peers.

<accepted-internal-prefix-count>—Number of accepted prefixes received from internal peers.

<accepted-prefix-count>—For a peer RIB, number of prefixes from this peer accepted by policy.

<active-external-prefix-count>—Number of active prefixes received from external peers.

<active-internal-prefix-count>—Number of active prefixes received from internal peers.

<active-prefix-count>—Number of active prefixes.

<advertised-prefix-count>—Number of prefixes present in the RIB-OUT.

<bgp-rib-state>—State of the RIB. Indicates if a BGP graceful restart is in progress.

<damped-prefix-count>—Number of prefixes in any damped state.

<history-prefix-count>—Number of prefixes with damping history maintained.

<name>—No documentation is available yet.

<pending-prefix-count>—Number of prefixes with pending changes.

<received-prefix-count>—For a peer RIB, number of prefixes received from this peer.

<rib-bit>—Number that represents the entry in the routing table for this peer.

<send-state>—State of the BGP group: in sync, not in sync, or not advertising.

<suppressed-external-prefix-count>—Number of external prefixes suppressed due to damping.

<suppressed-internal-prefix-count>—Number of internal prefixes suppressed due to damping.

<suppressed-prefix-count>—Number of prefixes suppressed due to damping.

<total-external-prefix-count>—Total number of prefixes received from external peers.

<total-internal-prefix-count>—Total number of prefixes received from internal peers.

<total-prefix-count>—Total number of prefixes in this RIB.

<vpn-rib-state>—State of the RIB. Indicates if a VPN graceful restart is in progress.

<bgp-rsync-ack-queue>

Usage

```
<bgp-rsync-master>
  <bgp-rsync-ack-queue>
    <bgp-rsync-queue-entry>...</bgp-rsync-queue-entry>
  </bgp-rsync-ack-queue>
</bgp-rsync-master>
```

Description No documentation is available yet.

Contents <bgp-rsync-queue-entry>—No documentation is available yet.

<bgp-rsync-error-queue>

Usage
```
<bgp-rsync-master>
  <bgp-rsync-error-queue>
    <bgp-rsync-queue-entry>...</bgp-rsync-queue-entry>
  </bgp-rsync-error-queue>
</bgp-rsync-master>
```

Description No documentation is available yet.

Contents <bgp-rsync-queue-entry>—No documentation is available yet.

<bgp-rsync-estab-queue>

Usage
```
<bgp-rsync-master>
  <bgp-rsync-estab-queue>
    <bgp-rsync-queue-entry>...</bgp-rsync-queue-entry>
  </bgp-rsync-estab-queue>
</bgp-rsync-master>
```

Description No documentation is available yet.

Contents <bgp-rsync-queue-entry>—No documentation is available yet.

<bgp-rsync-estab-type>

Usage
```
<bgp-rsync-master>
  <bgp-rsync-estab-type>
    <bgp-rsync-queue-entry>...</bgp-rsync-queue-entry>
  </bgp-rsync-estab-type>
</bgp-rsync-master>
```

Description No documentation is available yet.

Contents <bgp-rsync-queue-entry>—No documentation is available yet.

<bgp-rsync-master>

Usage

```
<bgp-sync-information>
  <bgp-rsync-master>
    <bgp-rsync-session-state>bgp-rsync-session-state</bgp-rsync-session-state>
    <bgp-rsync-session-time>bgp-rsync-session-time</bgp-rsync-session-time>
    <bgp-rsync-session-flaps>bgp-rsync-session-flaps</bgp-rsync-session-flaps>
    <bgp-rsync-session-last-flap-reason>bgp-rsync-session-last-flap-reason
                </bgp-rsync-session-last-flap-reason>
    <bgp-rsync-session-last-flap-error>bgp-rsync-session-last-flap-error
                </bgp-rsync-session-last-flap-error>
    <bgp-rsync-state>bgp-rsync-state</bgp-rsync-state>
    <bgp-rsync-state-time>bgp-rsync-state-time</bgp-rsync-state-time>
    <bgp-rsync-flags>bgp-rsync-flags</bgp-rsync-flags>
    <bgp-rsync-rt-state>bgp-rsync-rt-state</bgp-rsync-rt-state>
    <bgp-rsync-ackwait>bgp-rsync-ackwait</bgp-rsync-ackwait>
    <bgp-rsync-sowait>bgp-rsync-sowait</bgp-rsync-sowait>
    <bgp-rsync-sched>bgp-rsync-sched</bgp-rsync-sched>
    <bgp-rsync-sendbuf-count>bgp-rsync-sendbuf-count</bgp-rsync-sendbuf-count>
    <bgp-rsync-walker/>
    <bgp-rsync-walk>...</bgp-rsync-walk>
    <bgp-rsync-estab-type>...</bgp-rsync-estab-type>
    <bgp-rsync-ack-queue>...</bgp-rsync-ack-queue>
    <bgp-rsync-estab-tm>bgp-rsync-estab-tm</bgp-rsync-estab-tm>
    <bgp-rsync-error-queue>...</bgp-rsync-error-queue>
    <bgp-rsync-stats>...</bgp-rsync-stats>
    <bgp-rsync-estab-queue>...</bgp-rsync-estab-queue>
  </bgp-rsync-master>
</bgp-sync-information>
```

Description No documentation is available yet.

Contents <bgp-rsync-ack-queue>—No documentation is available yet.

<bgp-rsync-ackwait>—Number of peers waiting for ESTABLISH-ACK message.

<bgp-rsync-error-queue>—No documentation is available yet.

<bgp-rsync-estab-queue>—No documentation is available yet.

<bgp-rsync-estab-tm>—No documentation is available yet.

<bgp-rsync-estab-type>—No documentation is available yet.

<bgp-rsync-flags>—No documentation is available yet.

<bgp-rsync-rt-state>—No documentation is available yet.

<bgp-rsync-sched>—Number of peers being synchronized.

<bgp-rsync-sendbuf-count>—Number of bytes in send buffer.

<bgp-rsync-session-flaps>—Number of BGP resynchronization session flaps.

<bgp-rsync-session-last-flap-error>—Socket error for most recent BGP

resynchronization session flap.

<bgp-rsync-session-last-flap-reason>—Reason for most recent BGP resynchronization session flap.

<bgp-rsync-session-state>—State of the BGP resynchronization session.

<bgp-rsync-session-time>—Amount of time that the BGP resynchronization session has been Up or Down.

<bgp-rsync-sowait>—Number of peers waiting for socket record boundaries.

<bgp-rsync-state>—No documentation is available yet.

<bgp-rsync-state-time>—Time since last protocol state change.

<bgp-rsync-stats>—No documentation is available yet.

<bgp-rsync-walk>—No documentation is available yet.

<bgp-rsync-walker>—RT walker job running.

<bgp-rsync-queue-entry>

Usage

```
<bgp-rsync-estab-type | bgp-rsync-ack-queue | bgp-rsync-error-queue |
bgp-rsync-estab-queue>
  <bgp-rsync-queue-entry>
    <rsy-queue-instance>rsy-queue-instance</rsy-queue-instance>
    <rsy-queue-addr>rsy-queue-addr</rsy-queue-addr>
    <rsy-queue-more/>
  </bgp-rsync-queue-entry>
</bgp-rsync-estab-type | bgp-rsync-ack-queue | bgp-rsync-error-queue |
bgp-rsync-estab-queue>
```

Description No documentation is available yet.

Contents <rsy-queue-addr>—No documentation is available yet.

<rsy-queue-instance>—No documentation is available yet.

<rsy-queue-more>—No documentation is available yet.

<bgp-rsync-stats>

Usage

```
<bgp-rsync-master>
  <bgp-rsync-stats>
    <open-send-count>open-send-count</open-send-count>
    <estab-send-count>estab-send-count</estab-send-count>
    <update-send-count>update-send-count</update-send-count>
    <error-send-count>error-send-count</error-send-count>
    <complete-send-count>complete-send-count</complete-send-count>
    <open-receive-count>open-receive-count</open-receive-count>
    <request-wild-receive-count>request-wild-receive-count
                </request-wild-receive-count>
    <request-tgt-receive-count>request-tgt-receive-count
                </request-tgt-receive-count>
    <estab-ack-receive-count>estab-ack-receive-count</estab-ack-receive-count>
    <complete-ack-receive-count>complete-ack-receive-count
                </complete-ack-receive-count>
  </bgp-rsync-stats>
</bgp-rsync-master>
```

Description No documentation is available yet.

Contents <complete-ack-receive-count>—Number of COMPLETE-ACK messages received.

<complete-send-count>—Number of COMPLETE messages sent.

<error-send-count>—Number of ERROR messages sent.

<estab-ack-receive-count>—Number of ESTABLISH-ACK messages received.

<estab-send-count>—Number of ESTABLISH messages sent.

<open-receive-count>—Number of OPEN messages received.

<open-send-count>—Number of OPEN messages sent.

<request-tgt-receive-count>—Number of targeted REQUEST messages received.

<request-wild-receive-count>—Number of wildcard REQUEST messages received.

<update-send-count>—Number of UPDATE messages sent.

<bgp-rsync-walk>

Usage

```
<bgp-rsync-master>
  <bgp-rsync-walk>
    <bgp-rsync-walk-table>bgp-rsync-walk-table</bgp-rsync-walk-table>
    <bgp-rsync-walk-prefix>bgp-rsync-walk-prefix</bgp-rsync-walk-prefix>
    <bgp-rsync-walk-prefixlen>bgp-rsync-walk-prefixlen</bgp-rsync-walk-prefixlen>
    <queue-count>queue-count</queue-count>
  </bgp-rsync-walk>
</bgp-rsync-master>
```

Description No documentation is available yet.

Contents <bgp-rsync-walk-prefix>—Current Prefix.

<bgp-rsync-walk-prefixlen>—Current Prefix length.

<bgp-rsync-walk-table>—Current table name.

<queue-count>—Number of entries enqueued.

<bgp-rtf-brief>

Usage

```
<bgp-rtf-information>
  <bgp-rtf-brief>
    <group-name>group-name</group-name>
    <table-name>table-name</table-name>
    <bgp-rtf-state-flags>bgp-rtf-state-flags</bgp-rtf-state-flags>
    <bgp-rtf-entries>bgp-rtf-entries</bgp-rtf-entries>
  </bgp-rtf-brief>
</bgp-rtf-information>
```

Description No documentation is available yet.

Contents <bgp-rtf-entries>—No documentation is available yet.

<bgp-rtf-state-flags>—No documentation is available yet.

<group-name>—No documentation is available yet.

<table-name>—Unicast routing table.

<bgp-rtf-entry>

Usage
```
<bgp-rtf-state>
  <bgp-rtf-entry>
    <rtarget>rtarget</rtarget>
    <rtarget-mask>rtarget-mask</rtarget-mask>
  </bgp-rtf-entry>
</bgp-rtf-state>
```

Description No documentation is available yet.

Contents <rtarget>—Route target community.

<rtarget-mask>—No documentation is available yet.

<bgp-rtf-group>

Usage
```
<bgp-rtf-information>
  <bgp-rtf-group>
    <group-name>group-name</group-name>
    <rtarget-recv-mask>rtarget-recv-mask</rtarget-recv-mask>
    <default-mask>default-mask</default-mask>
    <bgp-rtf-state>...</bgp-rtf-state>
  </bgp-rtf-group>
</bgp-rtf-information>
```

Description No documentation is available yet.

Contents <bgp-rtf-state>—No documentation is available yet.

<default-mask>—No documentation is available yet.

<group-name>—No documentation is available yet.

<rtarget-recv-mask>—No documentation is available yet.

<bgp-rtf-information>

Usage
```
<rpc-reply>
  <bgp-rtf-information>
    <bgp-rtf-brief>...</bgp-rtf-brief>
    <bgp-rtf-group>...</bgp-rtf-group>
  </bgp-rtf-information>
</rpc-reply>
```

Description BGP route target filtering information.

Contents <bgp-rtf-brief>—No documentation is available yet.

<bgp-rtf-group>—No documentation is available yet.

<bgp-rtf-state>

Usage

```
<bgp-rtf-group>
  <bgp-rtf-state>
    <table-name>table-name</table-name>
    <bgp-rtf-state-flags>bgp-rtf-state-flags</bgp-rtf-state-flags>
    <bgp-rtf-entries>bgp-rtf-entries</bgp-rtf-entries>
    <bgp-rtf-entry>...</bgp-rtf-entry>
  </bgp-rtf-state>
</bgp-rtf-group>
```

Description No documentation is available yet.

Contents <bgp-rtf-entries>—No documentation is available yet.

<bgp-rtf-entry>—No documentation is available yet.

<bgp-rtf-state-flags>—No documentation is available yet.

<table-name>—Unicast routing table.

<bgp-standby>

Usage

```
<bgp-sync-information>
  <bgp-standby>
    <bgp-standby-state>bgp-standby-state</bgp-standby-state>
    <bgp-standby-last-trans>bgp-standby-last-trans</bgp-standby-last-trans>
    <bgp-standby-sendbuf>bgp-standby-sendbuf</bgp-standby-sendbuf>
    <bgp-unsync-timer>bgp-unsync-timer</bgp-unsync-timer>
    <bgp-unsync-pending-tm>bgp-unsync-pending-tm</bgp-unsync-pending-tm>
    <bgp-unsync-queue>...</bgp-unsync-queue>
    <bgp-unsync-pending>...</bgp-unsync-pending>
    <bgp-standby-sync-queue>...</bgp-standby-sync-queue>
  </bgp-standby>
</bgp-sync-information>
```

Description No documentation is available yet.

Contents <bgp-standby-last-trans>—No documentation is available yet.

<bgp-standby-sendbuf>—No documentation is available yet.

<bgp-standby-state>—No documentation is available yet.

<bgp-standby-sync-queue>—No documentation is available yet.

<bgp-unsync-pending>—No documentation is available yet.

<bgp-unsync-pending-tm>—No documentation is available yet.

<bgp-unsync-queue>—No documentation is available yet.

<bgp-unsync-timer>—No documentation is available yet.

<bgp-standby-sync-entry>

Usage
```
<bgp-standby-sync-queue>
  <bgp-standby-sync-entry>
    <bstandby-iid>bstandby-iid</bstandby-iid>
    <bstandby-addr>bstandby-addr</bstandby-addr>
  </bgp-standby-sync-entry>
</bgp-standby-sync-queue>
```

Description No documentation is available yet.

Contents <bstandby-addr>—No documentation is available yet.

<bstandby-iid>—Instance identifier.

<bgp-standby-sync-queue>

Usage
```
<bgp-standby>
  <bgp-standby-sync-queue>
    <bgp-standby-sync-entry>...</bgp-standby-sync-entry>
  </bgp-standby-sync-queue>
</bgp-standby>
```

Description No documentation is available yet.

Contents <bgp-standby-sync-entry>—No documentation is available yet.

<bgp-sync-information>

Usage
```
<rpc-reply>
  <bgp-sync-information>
    <bgp-rsync-master>...</bgp-rsync-master>
    <bgp-standby>...</bgp-standby>
  </bgp-sync-information>
</rpc-reply>
```

Description BGP synchronization information.

Contents <bgp-rsync-master>—No documentation is available yet.

<bgp-standby>—No documentation is available yet.

<bgp-traffic-statistics>

Usage

```
<bgp-traffic-statistics-information>
  <bgp-traffic-statistics>
    <bgp-prefix>bgp-prefix</bgp-prefix>
    <bgp-traffic-type>bgp-traffic-type</bgp-traffic-type>
    <bgp-traffic-error>bgp-traffic-error</bgp-traffic-error>
    <bgp-traffic-statistics-packet-count>bgp-traffic-statistics-packet-count
                </bgp-traffic-statistics-packet-count>
    <bgp-traffic-statistics-byte-count>bgp-traffic-statistics-byte-count
                </bgp-traffic-statistics-byte-count>
    <bgp-traffic-statistics-egress-as>bgp-traffic-statistics-egress-as
                </bgp-traffic-statistics-egress-as>
    <bgp-traffic-statistics-advertised-fec-label>bgp-traffic-statistics-advertised-fec-label
                </bgp-traffic-statistics-advertised-fec-label>
  </bgp-traffic-statistics>
</bgp-traffic-statistics-information>
```

Description No documentation is available yet.

Contents <bgp-prefix>—No documentation is available yet.

<bgp-traffic-error>—Error encountered when querying the statistics.

<bgp-traffic-statistics-advertised-fec-label>—Label advertised for routes in FEC.

<bgp-traffic-statistics-byte-count>—Number of bytes switched for this FEC.

<bgp-traffic-statistics-egress-as>—Egress AS for traffic destined for this prefix.

<bgp-traffic-statistics-packet-count>—Number of packets switched for this FEC.

<bgp-traffic-type>—Type of traffic: ingress or transit.

<bgp-traffic-statistics-error>

Usage

```
<bgp-traffic-statistics-information>
  <bgp-traffic-statistics-error>
    <bgp-traffic-error>bgp-traffic-error</bgp-traffic-error>
  </bgp-traffic-statistics-error>
</bgp-traffic-statistics-information>
```

Description No documentation is available yet.

Contents <bgp-traffic-error>—Error encountered when querying the statistics.

<bgp-traffic-statistics-header>

Usage

```
<bgp-traffic-statistics-information>
  <bgp-traffic-statistics-header>
    <group-name>group-name</group-name>
    <group-index>group-index</group-index>
    <nlri-name>nlri-name</nlri-name>
  </bgp-traffic-statistics-header>
</bgp-traffic-statistics-information>
```

Description No documentation is available yet.

Contents <group-index>—No documentation is available yet.

<group-name>—No documentation is available yet.

<nlri-name>—No documentation is available yet.

<bgp-traffic-statistics-information>

Usage

```
<rpc-reply>
  <bgp-traffic-statistics-information>
    <bgp-traffic-statistics-header>...</bgp-traffic-statistics-header>
    <bgp-traffic-statistics>...</bgp-traffic-statistics>
    <bgp-traffic-statistics-error>...</bgp-traffic-statistics-error>
  </bgp-traffic-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <bgp-traffic-statistics>—No documentation is available yet.

<bgp-traffic-statistics-error>—No documentation is available yet.

<bgp-traffic-statistics-header>—No documentation is available yet.

<bgp-unsync-entry>

Usage

```
<bgp-unsync-queue | bgp-unsync-pending>
  <bgp-unsync-entry>
    <usy-iid>usy-iid</usy-iid>
    <usy-addr>usy-addr</usy-addr>
    <usy-elapsed>usy-elapsed</usy-elapsed>
    <usy-flags>usy-flags</usy-flags>
    <usy-more/>
  </bgp-unsync-entry>
</bgp-unsync-queue | bgp-unsync-pending>
```

Description No documentation is available yet.

Contents <usy-addr>—No documentation is available yet.

<usy-elapsed>—No documentation is available yet.

<usy-flags>—No documentation is available yet.

<usy-iid>—Instance identifier.

<usy-more>—No documentation is available yet.

<bgp-unsync-pending>

Usage

```
<bgp-standby>
  <bgp-unsync-pending>
    <bgp-unsync-entry>...</bgp-unsync-entry>
  </bgp-unsync-pending>
</bgp-standby>
```

Description No documentation is available yet.

Contents <bgp-unsync-entry>—No documentation is available yet.

<bgp-unsync-queue>

Usage

```
<bgp-standby>
  <bgp-unsync-queue>
    <bgp-unsync-entry>...</bgp-unsync-entry>
  </bgp-unsync-queue>
</bgp-standby>
```

Description No documentation is available yet.

Contents <bgp-unsync-entry>—No documentation is available yet.

<bootstrap-family>

Usage

```
<pim-bootstrap-information>
  <bootstrap-family>
    <address-family>address-family</address-family>
    <address>address</address>
    <bootstrap-priority>bootstrap-priority</bootstrap-priority>
    <local-address>local-address</local-address>
    <local-priority>local-priority</local-priority>
    <bootstrap-state>bootstrap-state</bootstrap-state>
    <bootstrap-timeout>bootstrap-timeout</bootstrap-timeout>
  </bootstrap-family>
</pim-bootstrap-information>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<address-family>—No documentation is available yet.

<bootstrap-priority>—Priority of bootstrap router.

<bootstrap-state>—No documentation is available yet.

<bootstrap-timeout>—Bootstrap router timeout.

<local-address>—No documentation is available yet.

<local-priority>—Local priority.

<bypass-info>

Usage

```
<rsvp-interface>
  <bypass-info>
    <lp-status>lp-status</lp-status>
    <lp-requested>lp-requested</lp-requested>
    <lp-granted>lp-granted</lp-granted>
    <lp-failure>lp-failure</lp-failure>
    <total-bypass>total-bypass</total-bypass>
    <bypass-name>bypass-name</bypass-name>
    <bypass-state>bypass-state</bypass-state>
    <bypass-type>bypass-type</bypass-type>
    <rsvp-lp-psb-cnt>rsvp-lp-psb-cnt</rsvp-lp-psb-cnt>
    <rsvp-lp-backup-lsp-cnt>rsvp-lp-backup-lsp-cnt</rsvp-lp-backup-lsp-cnt>
    <lp-history>...</lp-history>
  </bypass-info>
</rsvp-interface>
```

Description No documentation is available yet.

Contents <bypass-name>—Name of the bypass.

<bypass-state>—Bypass up/down status.

<bypass-type>—Whether bypass type is link-protect or node-protect.

<lp-failure>—Number of LSPs not granted protection.

<lp-granted>—Number of LSPs granted protection.

<lp-history>—Log of LSP path-related events.

<lp-requested>—Number of LSPs requesting protection.

<lp-status>—Link-protection status.

<rsvp-lp-backup-lsp-cnt>—Number of backup RSVP LSPs tunneled through this bypass.

<rsvp-lp-psb-cnt>—Number of sessions tunneled through this bypass.

<total-bypass>—Number of bypass activated.

<c-multicast-ipv4>

Usage

```
<instance | instance-entry>
  <c-multicast-ipv4>
    <c-multicast-ipv4-entry>...</c-multicast-ipv4-entry>
  </c-multicast-ipv4>
</instance | instance-entry>
```

Description No documentation is available yet.

Contents <c-multicast-ipv4-entry>—No documentation is available yet.

<c-multicast-ipv4-entry>

Usage

```
<c-multicast-ipv4>
  <c-multicast-ipv4-entry>
    <c-multicast-address>c-multicast-address</c-multicast-address>
    <provider-tunnel-id>provider-tunnel-id</provider-tunnel-id>
    <c-multicast-property>c-multicast-property</c-multicast-property>
  </c-multicast-ipv4-entry>
</c-multicast-ipv4>
```

Description No documentation is available yet.

Contents <c-multicast-address>—Address of the c-multicast route.

<c-multicast-property>—Special properties of the c-multicast route.

<provider-tunnel-id>—Provider tunnel identifier.

<c-multicast-ipv6>

Usage

```
<instance | instance-entry>
  <c-multicast-ipv6>
    <c-multicast-ipv6-entry>...</c-multicast-ipv6-entry>
  </c-multicast-ipv6>
</instance | instance-entry>
```

Description No documentation is available yet.

Contents <c-multicast-ipv6-entry>—No documentation is available yet.

<c-multicast-ipv6-entry>

Usage

```
<c-multicast-ipv6>
  <c-multicast-ipv6-entry>
    <c-multicast-address>c-multicast-address</c-multicast-address>
    <provider-tunnel-id>provider-tunnel-id</provider-tunnel-id>
    <c-multicast-property>c-multicast-property</c-multicast-property>
  </c-multicast-ipv6-entry>
</c-multicast-ipv6>
```

Description No documentation is available yet.

Contents <c-multicast-address>—Address of the c-multicast route.

<c-multicast-property>—Special properties of the c-multicast route.

<provider-tunnel-id>—Provider tunnel identifier.

<*c-multicast-summary*>

Usage

```
<instance-entry-summary>
  <c-multicast-summary>
    <c-multicast-ipv4-count>c-multicast-ipv4-count</c-multicast-ipv4-count>
  </c-multicast-summary>
</instance-entry-summary>
```

Description No documentation is available yet.

Contents <c-multicast-ipv4-count>—Number of c-multicast IPv4 routes in the instance.

<*ccc-connection*>

Usage

```
<ccc-information>
  <ccc-connection>
    <ccc-connection-name>ccc-connection-name</ccc-connection-name>
    <ccc-connection-type>ccc-connection-type</ccc-connection-type>
    <ccc-connection-status>ccc-connection-status</ccc-connection-status>
    <ccc-connection-last-uptime>ccc-connection-last-uptime
                </ccc-connection-last-uptime>
    <ccc-connection-up-transitions>ccc-connection-up-transitions
                </ccc-connection-up-transitions>
    <ccc-connection-circuit>...</ccc-connection-circuit>
    <ccc-connection-in-labels>...</ccc-connection-in-labels>
    <ccc-connection-out-labels>...</ccc-connection-out-labels>
    <ccc-connection-history>...</ccc-connection-history>
  </ccc-connection>
</ccc-information>
```

Description No documentation is available yet.

Contents <ccc-connection-circuit>—No documentation is available yet.

<ccc-connection-history>—No documentation is available yet.

<ccc-connection-in-labels>—Incoming labels for this CCC connection.

<ccc-connection-last-uptime>—Time the connection was last up.

<ccc-connection-name>—Connection name.

<ccc-connection-out-labels>—Outgoing labels for this CCC connection.

<ccc-connection-status>—Status of the CCC connection.

<ccc-connection-type>—Type of CCC connection.

<ccc-connection-up-transitions>—Number of transitions to up state.

<ccc-connection-circuit>

Usage
```
<ccc-connection>
  <ccc-connection-circuit>
    <ccc-circuit-name>ccc-circuit-name</ccc-circuit-name>
    <ccc-circuit-type>ccc-circuit-type</ccc-circuit-type>
    <ccc-circuit-status>ccc-circuit-status</ccc-circuit-status>
  </ccc-connection-circuit>
</ccc-connection>
```

Description No documentation is available yet.

Contents <ccc-circuit-name>—No documentation is available yet.

<ccc-circuit-status>—No documentation is available yet.

<ccc-circuit-type>—No documentation is available yet.

<ccc-connection-history>

Usage
```
<ccc-connection>
  <ccc-connection-history>
    <ccc-connection-history-log>...</ccc-connection-history-log>
  </ccc-connection-history>
</ccc-connection>
```

Description No documentation is available yet.

Contents <ccc-connection-history-log>—No documentation is available yet.

<ccc-connection-history-log>

Usage
```
<ccc-connection-history>
  <ccc-connection-history-log>
    <event-time>event-time</event-time>
    <event-name>event-name</event-name>
    <interface-label-info>interface-label-info</interface-label-info>
    <receive-lsp-count>receive-lsp-count</receive-lsp-count>
    <transmit-lsp-count>transmit-lsp-count</transmit-lsp-count>
  </ccc-connection-history-log>
</ccc-connection-history>
```

Description No documentation is available yet.

Contents <event-name>—No documentation is available yet.

<event-time>—No documentation is available yet.

<interface-label-info>—No documentation is available yet.

<receive-lsp-count>—No documentation is available yet.

<transmit-lsp-count>—No documentation is available yet.

<ccc-connection-in-labels>

Usage

```
<ccc-connection>
  <ccc-connection-in-labels>
    <mpls-label>mpls-label</mpls-label>
    <no-label/>
  </ccc-connection-in-labels>
</ccc-connection>
```

Description Incoming labels for this CCC connection.

Contents <mpls-label>—Label of MPLS packet.

<no-label>—No documentation is available yet.

<ccc-connection-out-labels>

Usage

```
<ccc-connection>
  <ccc-connection-out-labels>
    <mpls-label>mpls-label</mpls-label>
    <no-label/>
  </ccc-connection-out-labels>
</ccc-connection>
```

Description Outgoing labels for this CCC connection.

Contents <mpls-label>—Label of MPLS packet.

<no-label>—No documentation is available yet.

<ccc-information>

Usage

```
<rpc-reply>
  <ccc-information>
    <ccc-no-connections/>
    <ccc-link-monitoring-status>ccc-link-monitoring-status
                    </ccc-link-monitoring-status>
    <ccc-restarting/>
    <ccc-connection>...</ccc-connection>
  </ccc-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ccc-connection>—No documentation is available yet.

<ccc-link-monitoring-status>—CCC link monitoring status.

<ccc-no-connections>—No documentation is available yet.

<ccc-restarting>—No documentation is available yet.

<communities>

Usage

```
<rt-entry | attrset | rt>
  <communities>
    <community>community</community>
    <extended-community>extended-community</extended-community>
  </communities>
</rt-entry | attrset | rt>
```

Description No documentation is available yet.

Contents <community>—Basic community.

<extended-community>—Extended community.

<connection>

Usage

```
<reference-site | mesh-group-connection | ldp-vpls-reference-site | l2circuit-neighbor>
  <connection>
    <connection-id>connection-id</connection-id>
    <connection-type>connection-type</connection-type>
    <connection-status>connection-status</connection-status>
    <last-change>last-change</last-change>
    <up-transitions>up-transitions</up-transitions>
    <local-interface>...</local-interface>
    <remote-interface>...</remote-interface>
    <remote-pe>remote-pe</remote-pe>
    <control-word>control-word</control-word>
    <control-word-type>control-word-type</control-word-type>
    <interface-encapsulation>interface-encapsulation</interface-encapsulation>
    <inbound-label>inbound-label</inbound-label>
    <outbound-label>outbound-label</outbound-label>
    <connection-bandwidth>...</connection-bandwidth>
    <vpls-rsvp-te-p2mp-lsp-information>...</vpls-rsvp-te-p2mp-lsp-information>
    <history>...</history>
    <l2vpn-local-site-id>l2vpn-local-site-id</l2vpn-local-site-id>
    <l2vpn-remote-site-id>l2vpn-remote-site-id</l2vpn-remote-site-id>
    <mesh-group-name>mesh-group-name</mesh-group-name>
  </connection>
</reference-site | mesh-group-connection | ldp-vpls-reference-site | l2circuit-neighbor>
```

Description No documentation is available yet.

Contents

<connection-bandwidth>—Bandwidth of a layer 2 connection.

<connection-id>—No documentation is available yet.

<connection-status>—No documentation is available yet.

<connection-type>—No documentation is available yet.

<control-word>—No documentation is available yet.

<control-word-type>—No documentation is available yet.

<history>—No documentation is available yet.

<inbound-label>—No documentation is available yet.

<interface-encapsulation>—No documentation is available yet.

<l2vpn-local-site-id>—Local site identifier.

<l2vpn-remote-site-id>—Remote site identifier.

<last-change>—No documentation is available yet.

<local-interface>—No documentation is available yet.

<mesh-group-name>—Name of mesh-group.

<outbound-label>—No documentation is available yet.

<remote-interface>—No documentation is available yet.

<remote-pe>—No documentation is available yet.

<up-transitions>—No documentation is available yet.

<vpls-rsvp-te-p2mp-lsp-information>—Information about one or more VPLS RSVP-TE point-to-multipoint LSPs.

<connection-bandwidth>

Usage
```
<rt-entry | layer2-connection | connection>
  <connection-bandwidth>
    <bandwidth>bandwidth</bandwidth>
    <class-type>class-type</class-type>
    <class-bandwidth>class-bandwidth</class-bandwidth>
  </connection-bandwidth>
</rt-entry | layer2-connection | connection>
```

Description Bandwidth of a layer 2 connection.

Contents <bandwidth>—No documentation is available yet.

<class-bandwidth>—No documentation is available yet.

<class-type>—No documentation is available yet.

<connections-summary>

Usage
```
<mesh-group-connection | reference-site | ldp-vpls-reference-site | l2circuit-neighbor>
  <connections-summary>
    <vc-up-count>vc-up-count</vc-up-count>
    <vc-down-count>vc-down-count</vc-down-count>
  </connections-summary>
</mesh-group-connection | reference-site | ldp-vpls-reference-site | l2circuit-neighbor>
```

Description No documentation is available yet.

Contents <vc-down-count>—No documentation is available yet.

<vc-up-count>—No documentation is available yet.

<cos-info>

Usage

```
<rsvp-interface>
  <cos-info>
    <queue-number>queue-number</queue-number>
    <tx-rate>tx-rate</tx-rate>
    <tx-rate-percent>tx-rate-percent</tx-rate-percent>
    <high-priority>high-priority</high-priority>
    <bw-exact>bw-exact</bw-exact>
  </cos-info>
</rsvp-interface>
```

Description No documentation is available yet.

Contents <bw-exact>—Exact bandwidth allocation.

<high-priority>—High/Low WRR priority.

<queue-number>—HW queue number.

<tx-rate>—No documentation is available yet.

<tx-rate-percent>—No documentation is available yet.

<cspf-paths>

Usage

```
<mpls-cspf>
  <cspf-paths>
    <total-paths>total-paths</total-paths>
    <successful>successful</successful>
    <no-route>no-route</no-route>
    <sys-error>sys-error</sys-error>
    <cspfs>cspfs</cspfs>
  </cspf-paths>
</mpls-cspf>
```

Description CSPF path computations statistics.

Contents <cspfs>—No documentation is available yet.

<no-route>—No documentation is available yet.

<successful>—No documentation is available yet.

<sys-error>—No documentation is available yet.

<total-paths>—No documentation is available yet.

<cspf-queue>

Usage

```
<mpls-cspf>
  <cspf-queue>
    <current>current</current>
    <maximum>maximum</maximum>
    <dequeued>dequeued</dequeued>
  </cspf-queue>
</mpls-cspf>
```

Description CSPF queue statistics.

Contents <current>—No documentation is available yet.

<dequeued>—No documentation is available yet.

<maximum>—No documentation is available yet.

<cspf-timing>

Usage

```
<mpls-cspf>
  <cspf-timing>
    <total-time>total-time</total-time>
    <cspf-time>cspf-time</cspf-time>
    <average-time>average-time</average-time>
    <rpd-time>rpd-time</rpd-time>
  </cspf-timing>
</mpls-cspf>
```

Description CSPF timing statistics.

Contents <average-time>—No documentation is available yet.

<cspf-time>—No documentation is available yet.

<rpd-time>—No documentation is available yet.

<total-time>—No documentation is available yet.

<dense-event>

Usage
```
<join-group>
  <dense-event>
    <dense-receive-prune>...</dense-receive-prune>
    <dense-send-prune>...</dense-send-prune>
    <dense-join>...</dense-join>
    <dense-graft>...</dense-graft>
  </dense-event>
</join-group>
```

Description No documentation is available yet.

Contents <dense-graft>—No documentation is available yet.

<dense-join>—No documentation is available yet.

<dense-receive-prune>—No documentation is available yet.

<dense-send-prune>—No documentation is available yet.

<dense-graft>

Usage
```
<dense-event>
  <dense-graft>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <dense-timeout>dense-timeout</dense-timeout>
  </dense-graft>
</dense-event>
```

Description No documentation is available yet.

Contents <dense-timeout>—No documentation is available yet.

<pim-interface-name>—Name of PIM interface.

<dense-join>

Usage
```
<dense-event>
  <dense-join>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <dense-timeout>dense-timeout</dense-timeout>
  </dense-join>
</dense-event>
```

Description No documentation is available yet.

Contents <dense-timeout>—No documentation is available yet.

<pim-interface-name>—Name of PIM interface.

<dense-receive-prune>

Usage
```
<dense-event>
  <dense-receive-prune>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <dense-timeout>dense-timeout</dense-timeout>
  </dense-receive-prune>
</dense-event>
```

Description No documentation is available yet.

Contents <dense-timeout>—No documentation is available yet.

<pim-interface-name>—Name of PIM interface.

<dense-send-prune>

Usage
```
<dense-event>
  <dense-send-prune>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <dense-timeout>dense-timeout</dense-timeout>
  </dense-send-prune>
</dense-event>
```

Description No documentation is available yet.

Contents <dense-timeout>—No documentation is available yet.

<pim-interface-name>—Name of PIM interface.

<destination-network>

Usage
```
<dynamic-tunnel-table>
  <destination-network>
    <prefix>prefix</prefix>
    <destination-network-deleted/>
    <dynamic-tunnel>...</dynamic-tunnel>
  </destination-network>
</dynamic-tunnel-table>
```

Description No documentation is available yet.

Contents <destination-network-deleted>—Whether this destination network has been unconfigured.

<dynamic-tunnel>—No documentation is available yet.

<prefix>—No documentation is available yet.

<detour>

Usage

```
<rsvp-session>
  <detour>
    <lsp-state>lsp-state</lsp-state>
    <sender-tspec>sender-tspec</sender-tspec>
    <adspec>adspec</adspec>
    <path-mtu>path-mtu</path-mtu>
    <path-mtu-in-kernel>path-mtu-in-kernel</path-mtu-in-kernel>
    <packet-information>...</packet-information>
    <explicit-route>...</explicit-route>
    <record-route>...</record-route>
    <label-out>label-out</label-out>
    <lsp-diffserv-info>lsp-diffserv-info</lsp-diffserv-info>
    <ct-bw>ct-bw</ct-bw>
  </detour>
</rsvp-session>
```

Description Detour that originated at this LSR.

Contents <adspec>—Adspec data element in an RSVP Path message.

<ct-bw>—Per-class bandwidth requested for E-LSPs and L-LSPs.

<explicit-route>—Explicit Route Object (ERO).

<label-out>—Outgoing label.

<lsp-diffserv-info>—LSP DiffServ info.

<lsp-state>—State of an LSP.

<packet-information>—RSVP packets sent or received per session.

<path-mtu>—The value of the path MTU, as negotiated by the network.

<path-mtu-in-kernel>—The value of the MTU used locally for forwarding.

<record-route>—Record Route Object (RRO).

<sender-tspec>—Sender TSpec.

<detour-bandwidth>

Usage

```
<rsvp-telink>
  <detour-bandwidth>
    <bandwidth-priority>bandwidth-priority</bandwidth-priority>
    <total-reserved-bandwidth>total-reserved-bandwidth</total-reserved-bandwidth>
    <interface-address>interface-address</interface-address>
  </detour-bandwidth>
</rsvp-telink>
```

Description Bandwidth reserved on detour at different priority levels.

Contents <bandwidth-priority>—No documentation is available yet.

<interface-address>—No documentation is available yet.

<total-reserved-bandwidth>—Total amount of bandwidth currently reserved.

<*detour-branch*>

Usage

```
<rsvp-session>
  <detour-branch>
    <source-address>source-address</source-address>
    <skip-address>skip-address</skip-address>
    <lsp-state>lsp-state</lsp-state>
    <sender-tspec>sender-tspec</sender-tspec>
    <adspec>adspec</adspec>
    <path-mtu>path-mtu</path-mtu>
    <explicit-route>...</explicit-route>
    <record-route>...</record-route>
    <packet-information>...</packet-information>
    <detour-branch-labels>...</detour-branch-labels>
  </detour-branch>
</rsvp-session>
```

Description Detour that originated at some other LSR.

Contents <adspec>—Adspec data element in an RSVP Path message.

<detour-branch-labels>—No documentation is available yet.

<explicit-route>—Explicit Route Object (ERO).

<lsp-state>—State of an LSP.

<packet-information>—RSVP packets sent or received per session.

<path-mtu>—The value of the path MTU, as negotiated by the network.

<record-route>—Record Route Object (RRO).

<sender-tspec>—Sender TSpec.

<skip-address>—Address of node or link to be skipped.

<source-address>—No documentation is available yet.

<*detour-branch-labels*>

Usage

```
<detour-branch>
  <detour-branch-labels>
    <label-in>label-in</label-in>
    <label-out>label-out</label-out>
  </detour-branch-labels>
</detour-branch>
```

Description No documentation is available yet.

Contents <label-in>—Incoming label.

<label-out>—Outgoing label.

<downstream-assert-neighbor>

Usage
```
<sparse-downstream-interface>
  <downstream-assert-neighbor>
    <neighbor-address>neighbor-address</neighbor-address>
    <neighbor-assert-metric>neighbor-assert-metric</neighbor-assert-metric>
    <neighbor-assert-preference>neighbor-assert-preference
                </neighbor-assert-preference>
    <neighbor-assert-timeout>neighbor-assert-timeout</neighbor-assert-timeout>
  </downstream-assert-neighbor>
</sparse-downstream-interface>
```

Description Information about the neighbor that won the assert.

Contents <neighbor-address>—IP address of this neighbor.

<neighbor-assert-metric>—Metric of the assert winner for reaching a source or RP.

<neighbor-assert-preference>—Preference of the assert winner for reaching a source or RP.

<neighbor-assert-timeout>—Time remaining before assert winner timer expires.

<downstream-interface>

Usage
```
<join-group>
  <downstream-interface>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <pruned-timeout>pruned-timeout</pruned-timeout>
    <pim-interface-state>pim-interface-state</pim-interface-state>
  </downstream-interface>
</join-group>
```

Description No documentation is available yet.

Contents <pim-interface-name>—Name of PIM interface.

<pim-interface-state>—State of PIM interface.

<pruned-timeout>—No documentation is available yet.

<downstream-neighbor>

Usage

```
<sparse-downstream-interface>
  <downstream-neighbor>
    <neighbor-address>neighbor-address</neighbor-address>
    <neighbor-state>neighbor-state</neighbor-state>
    <terse-sparse/>
    <terse-rpt/>
    <terse-wc/>
    <neighbor-timeout>neighbor-timeout</neighbor-timeout>
  </downstream-neighbor>
</sparse-downstream-interface>
```

Description No documentation is available yet.

Contents <neighbor-address>—IP address of this neighbor.

<neighbor-state>—No documentation is available yet.

<neighbor-timeout>—No documentation is available yet.

<terse-rpt>—No documentation is available yet.

<terse-sparse>—No documentation is available yet.

<terse-wc>—No documentation is available yet.

<dvmrp-capability-flags>

Usage

```
<dvmrp-neighbor>
  <dvmrp-capability-flags>
    <dvmrp-neighbor-one-way/>
    <dvmrp-neighbor-prune/>
    <dvmrp-neighbor-generation-id/>
    <dvmrp-neighbor-mtrace/>
    <dvmrp-neighbor-leave/>
    <dvmrp-neighbor-snmp/>
    <dvmrp-neighbor-netmask/>
  </dvmrp-capability-flags>
</dvmrp-neighbor>
```

Description No documentation is available yet.

Contents <dvmrp-neighbor-generation-id>—No documentation is available yet.

<dvmrp-neighbor-leave>—No documentation is available yet.

<dvmrp-neighbor-mtrace>—No documentation is available yet.

<dvmrp-neighbor-netmask>—No documentation is available yet.

<dvmrp-neighbor-one-way>—No documentation is available yet.

<dvmrp-neighbor-prune>—No documentation is available yet.

<dvmrp-neighbor-snmp>—No documentation is available yet.

<dvmrp-graft>

Usage

```
<dvmrp-instance>
  <dvmrp-graft>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <dvmrp-graft-expire-time>dvmrp-graft-expire-time</dvmrp-graft-expire-time>
    <dvmrp-neighbor-address>dvmrp-neighbor-address</dvmrp-neighbor-address>
  </dvmrp-graft>
</dvmrp-instance>
```

Description No documentation is available yet.

Contents <dvmrp-graft-expire-time>—No documentation is available yet.

<dvmrp-neighbor-address>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<dvmrp-graft-queue-information>

Usage

```
<rpc-reply>
  <dvmrp-graft-queue-information>
    <dvmrp-instance>...</dvmrp-instance>
  </dvmrp-graft-queue-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dvmrp-instance>—No documentation is available yet.

<dvmrp-group>

Usage

```
<dvmrp-prefix-entry>
  <dvmrp-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <dvmrp-prunes-sent>dvmrp-prunes-sent</dvmrp-prunes-sent>
    <dvmrp-grafts-sent>dvmrp-grafts-sent</dvmrp-grafts-sent>
    <dvmrp-cache-lifetime>dvmrp-cache-lifetime</dvmrp-cache-lifetime>
    <dvmrp-prune-time>dvmrp-prune-time</dvmrp-prune-time>
    <dvmrp-prune-lifetime>dvmrp-prune-lifetime</dvmrp-prune-lifetime>
    <dvmrp-prune>...</dvmrp-prune>
  </dvmrp-group>
</dvmrp-prefix-entry>
```

Description No documentation is available yet.

Contents <dvmrp-cache-lifetime>—No documentation is available yet.

<dvmrp-grafts-sent>—No documentation is available yet.

<dvmrp-prune>—No documentation is available yet.

<dvmrp-prune-lifetime>—No documentation is available yet.

<dvmrp-prune-time>—No documentation is available yet.

<dvmrp-prunes-sent>—No documentation is available yet.

<multicast-group-address>—Group address.

<dvmrp-instance>

Usage

```
<dvmrp-interfaces-information | dvmrp-graft-queue-information |
dvmrp-neighbors-information | dvmrp-prefix-information | dvmrp-prunes-information>
  <dvmrp-instance>
    <instance-name>instance-name</instance-name>
    <dvmrp-interface>...</dvmrp-interface>
    <dvmrp-graft>...</dvmrp-graft>
    <dvmrp-neighbor>...</dvmrp-neighbor>
    <dvmrp-prefix-entry>...</dvmrp-prefix-entry>
    <dvmrp-prune>...</dvmrp-prune>
  </dvmrp-instance>
</dvmrp-interfaces-information | dvmrp-graft-queue-information |
dvmrp-neighbors-information | dvmrp-prefix-information | dvmrp-prunes-information>
```

Description No documentation is available yet.

Contents <dvmrp-graft>—No documentation is available yet.

<dvmrp-interface>—No documentation is available yet.

<dvmrp-neighbor>—No documentation is available yet.

<dvmrp-prefix-entry>—No documentation is available yet.

<dvmrp-prune>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<dvmrp-interface>

Usage

```
<dvmrp-instance>
  <dvmrp-interface>
    <interface-name>interface-name</interface-name>
    <dvmrp-interface-state>dvmrp-interface-state</dvmrp-interface-state>
    <dvmrp-interface-leaf>dvmrp-interface-leaf</dvmrp-interface-leaf>
    <dvmrp-interface-metric>dvmrp-interface-metric</dvmrp-interface-metric>
    <dvmrp-interface-announcements>dvmrp-interface-announcements
                </dvmrp-interface-announcements>
    <dvmrp-interface-mode>dvmrp-interface-mode</dvmrp-interface-mode>
    <dvmrp-interface-holdtime>dvmrp-interface-holdtime</dvmrp-interface-holdtime>
  </dvmrp-interface>
</dvmrp-instance>
```

Description No documentation is available yet.

Contents <dvmrp-interface-announcements>—No documentation is available yet.

<dvmrp-interface-holdtime>—No documentation is available yet.

<dvmrp-interface-leaf>—No documentation is available yet.

<dvmrp-interface-metric>—No documentation is available yet.

<dvmrp-interface-mode>—No documentation is available yet.

<dvmrp-interface-state>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<dvmrp-interfaces-information>

Usage

```
<rpc-reply>
  <dvmrp-interfaces-information>
    <dvmrp-instance>...</dvmrp-instance>
  </dvmrp-interfaces-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dvmrp-instance>—No documentation is available yet.

<dvmrp-neighbor>

Usage

```
<dvmrp-instance>
  <dvmrp-neighbor>
    <dvmrp-neighbor-address>dvmrp-neighbor-address</dvmrp-neighbor-address>
    <interface-name>interface-name</interface-name>
    <dvmrp-major-version>dvmrp-major-version</dvmrp-major-version>
    <dvmrp-minor-version>dvmrp-minor-version</dvmrp-minor-version>
    <dvmrp-capability-flags>...</dvmrp-capability-flags>
    <dvmrp-neighbor-routes>dvmrp-neighbor-routes</dvmrp-neighbor-routes>
    <dvmrp-neighbor-timeout>dvmrp-neighbor-timeout</dvmrp-neighbor-timeout>
    <dvmrp-neighbor-transitions>dvmrp-neighbor-transitions
                </dvmrp-neighbor-transitions>
  </dvmrp-neighbor>
</dvmrp-instance>
```

Description No documentation is available yet.

Contents <dvmrp-capability-flags>—No documentation is available yet.

<dvmrp-major-version>—No documentation is available yet.

<dvmrp-minor-version>—No documentation is available yet.

<dvmrp-neighbor-address>—No documentation is available yet.

<dvmrp-neighbor-routes>—No documentation is available yet.

<dvmrp-neighbor-timeout>—No documentation is available yet.

<dvmrp-neighbor-transitions>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<dvmrp-neighbors-information>

Usage

```
<rpc-reply>
  <dvmrp-neighbors-information>
    <dvmrp-instance>...</dvmrp-instance>
  </dvmrp-neighbors-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dvmrp-instance>—No documentation is available yet.

<dvmrp-prefix-entry>

Usage

```
<dvmrp-instance>
  <dvmrp-prefix-entry>
    <dvmrp-prefix>dvmrp-prefix</dvmrp-prefix>
    <dvmrp-prefix-length>dvmrp-prefix-length</dvmrp-prefix-length>
    <dvmrp-next-hop>dvmrp-next-hop</dvmrp-next-hop>
    <dvmrp-prefix-age>dvmrp-prefix-age</dvmrp-prefix-age>
    <dvmrp-group>...</dvmrp-group>
  </dvmrp-prefix-entry>
</dvmrp-instance>
```

Description No documentation is available yet.

Contents <dvmrp-group>—No documentation is available yet.

<dvmrp-next-hop>—No documentation is available yet.

<dvmrp-prefix>—No documentation is available yet.

<dvmrp-prefix-age>—No documentation is available yet.

<dvmrp-prefix-length>—No documentation is available yet.

<dvmrp-prefix-information>

Usage

```
<rpc-reply>
  <dvmrp-prefix-information>
    <dvmrp-instance>...</dvmrp-instance>
  </dvmrp-prefix-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dvmrp-instance>—No documentation is available yet.

<dvmrp-prune>

Usage

```
<dvmrp-group | dvmrp-instance>
  <dvmrp-prune>
    <dvmrp-neighbor-address>dvmrp-neighbor-address</dvmrp-neighbor-address>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <multicast-source-prefix-length>multicast-source-prefix-length
                </multicast-source-prefix-length>
    <dvmrp-prune-timeout>dvmrp-prune-timeout</dvmrp-prune-timeout>
  </dvmrp-prune>
</dvmrp-group | dvmrp-instance>
```

Description No documentation is available yet.

Contents <dvmrp-neighbor-address>—No documentation is available yet.

<dvmrp-prune-timeout>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<multicast-source-prefix-length>—Source prefix length.

<dvmrp-prunes-information>

Usage

```
<rpc-reply>
  <dvmrp-prunes-information>
    <dvmrp-instance>...</dvmrp-instance>
  </dvmrp-prunes-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dvmrp-instance>—No documentation is available yet.

<dynamic-tunnel>

Usage

```
<destination-network>
  <dynamic-tunnel>
    <tunnel-destination>tunnel-destination</tunnel-destination>
    <tunnel-state>tunnel-state</tunnel-state>
    <tunnel-expiry>tunnel-expiry</tunnel-expiry>
    <tunnel-reference-count>tunnel-reference-count</tunnel-reference-count>
    <tunnel-nexthop>...</tunnel-nexthop>
  </dynamic-tunnel>
</destination-network>
```

Description No documentation is available yet.

Contents <tunnel-destination>—Tunnel destination.

<tunnel-expiry>—Time after which the tunnel will be removed.

<tunnel-nexthop>—No documentation is available yet.

<tunnel-reference-count>—Number of references on this tunnel.

<tunnel-state>—State of the tunnel.

<dynamic-tunnel-table>

Usage

```
<dynamic-tunnels-information>
  <dynamic-tunnel-table>
    <table-name>table-name</table-name>
    <destination-network>...</destination-network>
  </dynamic-tunnel-table>
</dynamic-tunnels-information>
```

Description No documentation is available yet.

Contents <destination-network>—No documentation is available yet.

<table-name>—Unicast routing table.

<dynamic-tunnels-information>

Usage

```
<rpc-reply>
  <dynamic-tunnels-information>
    <dynamic-tunnel-table>...</dynamic-tunnel-table>
  </dynamic-tunnels-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dynamic-tunnel-table>—No documentation is available yet.

<end-system-element>

Usage

```
<isis-spf-result>
  <end-system-element>
    <end-system-id>end-system-id</end-system-id>
    <end-system-metric>end-system-metric</end-system-metric>
  </end-system-element>
</isis-spf-result>
```

Description No documentation is available yet.

Contents <end-system-id>—Six-octet ISO system ID for a end-system.

<end-system-metric>—No documentation is available yet.

<esis-adjacency>

Usage

```
<esis-adjacency-information>
  <esis-adjacency>
    <esis-neighbor-type>esis-neighbor-type</esis-neighbor-type>
    <esis-neighbor-id>esis-neighbor-id</esis-neighbor-id>
    <holdtime>holdtime</holdtime>
    <esis-adjacency-advertised-holdtime>esis-adjacency-advertised-holdtime
                </esis-adjacency-advertised-holdtime>
    <snpa>snpa</snpa>
    <interface-name>interface-name</interface-name>
    <esis-adjacency-log>...</esis-adjacency-log>
  </esis-adjacency>
</esis-adjacency-information>
```

Description No documentation is available yet.

Contents <esis-adjacency-advertised-holdtime>—Hold time advertised by the adjacency.

<esis-adjacency-log>—Entry describing ES-IS adjacency transition.

<esis-neighbor-id>—NSAP or NET of the neighbor.

<esis-neighbor-type>—Type of neighbor - End system or Intermediate system.

<holdtime>—Hold time configured with the hold-time statement. The default hold time is 90 seconds. The hold time is three times the interval at which keepalive messages are sent.

<interface-name>—No documentation is available yet.

<snpa>—No documentation is available yet.

<esis-adjacency-information>

Usage

```
<rpc-reply>
  <esis-adjacency-information>
    <esis-adjacency>...</esis-adjacency>
  </esis-adjacency-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <esis-adjacency>—No documentation is available yet.

<esis-adjacency-log>

Usage

```
<esis-adjacency>
  <esis-adjacency-log>
    <esis-adjacency-when>esis-adjacency-when</esis-adjacency-when>
    <esis-adjacency-state>esis-adjacency-state</esis-adjacency-state>
    <esis-adjacency-event>esis-adjacency-event</esis-adjacency-event>
    <esis-adjacency-down-reason>esis-adjacency-down-reason
                </esis-adjacency-down-reason>
  </esis-adjacency-log>
</esis-adjacency>
```

Description Entry describing ES-IS adjacency transition.

Contents <esis-adjacency-down-reason>—Reason for the down transition event.

<esis-adjacency-event>—Event that triggered the transition.

<esis-adjacency-state>—State of the adjacency.

<esis-adjacency-when>—Time at which the transition occurred.

<esis-interface>

Usage

```
<esis-interface-information>
  <esis-interface>
    <interface-name>interface-name</interface-name>
    <esis-interface-receives>esis-interface-receives</esis-interface-receives>
    <esis-interface-sends>esis-interface-sends</esis-interface-sends>
    <interface-index>interface-index</interface-index>
    <esis-interface-state-value>esis-interface-state-value
                </esis-interface-state-value>
    <esis-hello-interval>esis-hello-interval</esis-hello-interval>
    <holdtime>holdtime</holdtime>
    <esis-esct>esis-esct</esis-esct>
    <esis-adjacency-count>esis-adjacency-count</esis-adjacency-count>
    <esis-interface-net>esis-interface-net</esis-interface-net>
  </esis-interface>
</esis-interface-information>
```

Description No documentation is available yet.

Contents

<esis-adjacency-count>—Number of adjacencies.

<esis-esct>—Suggested hold time for end systems (default is 180 seconds).

<esis-hello-interval>—Interval between subsequent hellos (one-third of the hold time).

<esis-interface-net>—NET used in hello for this interface.

<esis-interface-receives>—Types of hellos received on this interface - ESH and/or ISH.

<esis-interface-sends>—Type of hello message sent out on this interface - ESH or ISH.

<esis-interface-state-value>—State of ES-IS interface.

<holdtime>—Hold time configured with the hold-time statement. The default hold time is 90 seconds. The hold time is three times the interval at which keepalive messages are sent.

<interface-index>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<esis-interface-information>

Usage

```
<rpc-reply>
  <esis-interface-information>
    <esis-interface>...</esis-interface>
  </esis-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <esis-interface>—No documentation is available yet.

<esis-pdu-statistics>

Usage

```
<esis-statistics-information>
  <esis-pdu-statistics>
    <esis-pdu-type>esis-pdu-type</esis-pdu-type>
    <packets-received>packets-received</packets-received>
    <packets-processed>packets-processed</packets-processed>
    <packets-dropped>packets-dropped</packets-dropped>
    <packets-sent>packets-sent</packets-sent>
    <packets-retransmitted>packets-retransmitted</packets-retransmitted>
  </esis-pdu-statistics>
</esis-statistics-information>
```

Description No documentation is available yet.

Contents <esis-pdu-type>—Type of ES-IS Protocol Data Unit.

<packets-dropped>—No documentation is available yet.

<packets-processed>—No documentation is available yet.

<packets-received>—No documentation is available yet.

<packets-retransmitted>—No documentation is available yet.

<packets-sent>—No documentation is available yet.

<esis-statistics-information>

Usage

```
<rpc-reply>
  <esis-statistics-information>
    <esis-pdu-statistics>...</esis-pdu-statistics>
    <esis-totals-information>...</esis-totals-information>
  </esis-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <esis-pdu-statistics>—No documentation is available yet.

<esis-totals-information>—No documentation is available yet.

<esis-totals-information>

Usage
```
<esis-statistics-information>
  <esis-totals-information>
    <packets-received>packets-received</packets-received>
    <packets-sent>packets-sent</packets-sent>
  </esis-totals-information>
</esis-statistics-information>
```

Description No documentation is available yet.

Contents <packets-received>—No documentation is available yet.

<packets-sent>—No documentation is available yet.

<everything>

Usage
```
<pim-statistics-information>
  <everything>
    <pim-statistics-global>...</pim-statistics-global>
    <pim-statistics-other>...</pim-statistics-other>
  </everything>
</pim-statistics-information>
```

Description No documentation is available yet.

Contents <pim-statistics-global>—No documentation is available yet.

<pim-statistics-other>—No documentation is available yet.

<explicit-route>

Usage
```
<rsvp-session | detour | detour-branch | mpls-lsp-path | mpls-restart-path |
mpls-restart-rsvp>
  <explicit-route>
    <address>address</address>
    <explicit-route-type>explicit-route-type</explicit-route-type>
    <telink-id>telink-id</telink-id>
  </explicit-route>
</rsvp-session | detour | detour-branch | mpls-lsp-path | mpls-restart-path |
mpls-restart-rsvp>
```

Description Explicit Route Object (ERO).

Contents <address>—No documentation is available yet.

<explicit-route-type>—No documentation is available yet.

<telink-id>—Link identifier of unnumbered link.

<fdep-depnode>

Usage

```
<fdep-node>
  <fdep-depnode>
    <dep-rtnode-prefix>dep-rtnode-prefix</dep-rtnode-prefix>
    <dep-rtnode-prefixlen>dep-rtnode-prefixlen</dep-rtnode-prefixlen>
    <dep-entries>dep-entries</dep-entries>
    <dep-active>dep-active</dep-active>
    <dep-flags>dep-flags</dep-flags>
  </fdep-depnode>
</fdep-node>
```

Description No documentation is available yet.

Contents <dep-active>—Number of flow routes which match unicast origin.

<dep-entries>—Number of flow routes with this destination address.

<dep-flags>—No documentation is available yet.

<dep-rtnode-prefix>—Prefix of unicast route used to resolve this flow destination.

<dep-rtnode-prefixlen>—Prefix length of unicast route used to resolve this flow destination.

<fdep-inode>

Usage

```
<fdep-node>
  <fdep-inode>
    <fdep-inode-color>fdep-inode-color</fdep-inode-color>
    <fdep-inode-consist>fdep-inode-consist</fdep-inode-consist>
    <fdep-inode-asn>fdep-inode-asn</fdep-inode-asn>
  </fdep-inode>
</fdep-node>
```

Description No documentation is available yet.

Contents <fdep-inode-asn>—Neighbor AS for all more specific unicast routes.

<fdep-inode-color>—No documentation is available yet.

<fdep-inode-consist>—No documentation is available yet.

<fdep-node>

Usage

```
<rtflow-dep-table>
  <fdep-node>
    <fdep-destination>fdep-destination</fdep-destination>
    <fdep-prefixlen>fdep-prefixlen</fdep-prefixlen>
    <fdep-inode>...</fdep-inode>
    <fdep-rtnode>...</fdep-rtnode>
    <fdep-depnode>...</fdep-depnode>
  </fdep-node>
</rtflow-dep-table>
```

Description No documentation is available yet.

Contents <fdep-depnode>—No documentation is available yet.

<fdep-destination>—Destination prefix for tree node.

<fdep-inode>—No documentation is available yet.

<fdep-prefixlen>—Destination prefix length for tree node.

<fdep-rtnode>—Entry that corresponding to a unicast route that is being tracked.

<fdep-rtnode>

Usage

```
<fdep-node>
  <fdep-rtnode>
    <rtnode-state>rtnode-state</rtnode-state>
    <rtnode-refcount>rtnode-refcount</rtnode-refcount>
    <rtnode-origin>rtnode-origin</rtnode-origin>
    <rtnode-next-as>rtnode-next-as</rtnode-next-as>
    <rtnode-flags>rtnode-flags</rtnode-flags>
  </fdep-rtnode>
</fdep-node>
```

Description Entry that corresponding to a unicast route that is being tracked.

Contents <rtnode-flags>—No documentation is available yet.

<rtnode-next-as>—Neighbor AS for active unicast route.

<rtnode-origin>—Unicast route origin (BGP gateway address or originator attribute.

<rtnode-refcount>—Dependent flow destinations.

<rtnode-state>—No documentation is available yet.

<flow-ucast-rt>

Usage

```
<rtd-flow-dep>
  <flow-ucast-rt>
    <flow-rtn-dest>flow-rtn-dest</flow-rtn-dest>
    <flow-rtn-plen>flow-rtn-plen</flow-rtn-plen>
    <flow-rtn-state>flow-rtn-state</flow-rtn-state>
  </flow-ucast-rt>
</rtd-flow-dep>
```

Description Unicast route used for resolution.

Contents <flow-rtn-dest>—Destination address.

<flow-rtn-plen>—Prefix length.

<flow-rtn-state>—Validation entry state.

<history>

Usage

```
<connection>
  <history>
    <log-time-stamp>log-time-stamp</log-time-stamp>
    <log-event>log-event</log-event>
    <changed-entity>changed-entity</changed-entity>
  </history>
</connection>
```

Description No documentation is available yet.

Contents <changed-entity>—No documentation is available yet.

<log-event>—No documentation is available yet.

<log-time-stamp>—No documentation is available yet.

<host-record>

Usage

```
<mgm-group>
  <host-record>
    <record-type>record-type</record-type>
    <receiver>receiver</receiver>
    <record-timeout>record-timeout</record-timeout>
  </host-record>
</mgm-group>
```

Description No documentation is available yet.

Contents <receiver>—No documentation is available yet.

<record-timeout>—No documentation is available yet.

<record-type>—No documentation is available yet.

<hostname-tlv>

Usage

```
<isis-tlv>
  <hostname-tlv>
    <hostname>hostname</hostname>
  </hostname-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <hostname>—No documentation is available yet.

<idrp-tlv>

Usage

```
<isis-tlv>
  <idrp-tlv>
    <tlv-length>tlv-length</tlv-length>
  </idrp-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <tlv-length>—No documentation is available yet.

<iflist-next-hop>

Usage

```
<next-hops-family>
  <iflist-next-hop>
    <next-hop-id>next-hop-id</next-hop-id>
    <next-hop-ref-count>next-hop-ref-count</next-hop-ref-count>
    <next-hop-kernel-ref-count>next-hop-kernel-ref-count
                    </next-hop-kernel-ref-count>
    <next-hop-downstream-interface>...</next-hop-downstream-interface>
  </iflist-next-hop>
</next-hops-family>
```

Description No documentation is available yet.

Contents <next-hop-downstream-interface>—No documentation is available yet.

<next-hop-id>—No documentation is available yet.

<next-hop-kernel-ref-count>—No documentation is available yet.

<next-hop-ref-count>—No documentation is available yet.

<igmp-group-information>

Usage

```
<rpc-reply>
  <igmp-group-information>
    <mgm-interface-groups>...</mgm-interface-groups>
  </igmp-group-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-interface-groups>—No documentation is available yet.

<igmp-hosts-information>

Usage

```
<rpc-reply>
  <igmp-hosts-information>
    <mgm-disabled-interface-name>mgm-disabled-interface-name
                    </mgm-disabled-interface-name>
    <mgm-interface>...</mgm-interface>
  </igmp-hosts-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-disabled-interface-name>—No documentation is available yet.

<mgm-interface>—No documentation is available yet.

<igmp-interface-information>

Usage

```
<rpc-reply>
  <igmp-interface-information>
    <mgm-interface>...</mgm-interface>
    <mgm-configured-parameters>...</mgm-configured-parameters>
    <mgm-derived-parameters>...</mgm-derived-parameters>
  </igmp-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-configured-parameters>—No documentation is available yet.

<mgm-derived-parameters>—No documentation is available yet.

<mgm-interface>—No documentation is available yet.

<igmp-output-group-information>

Usage

```
<rpc-reply>
  <igmp-output-group-information>
    <mgm-interface-output-groups>...</mgm-interface-output-groups>
  </igmp-output-group-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-interface-output-groups>—No documentation is available yet.

<igmp-statistics-information>

Usage

```
<rpc-reply>
  <igmp-statistics-information>
    <mgm-statistics-interface>...</mgm-statistics-interface>
    <mgm-statistics-other>...</mgm-statistics-other>
    <mgm-statistics-global>...</mgm-statistics-global>
    <mgm-statistics-all>...</mgm-statistics-all>
  </igmp-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-statistics-all>—No documentation is available yet.

<mgm-statistics-global>—No documentation is available yet.

<mgm-statistics-interface>—No documentation is available yet.

<mgm-statistics-other>—No documentation is available yet.

<instance>

Usage

```
<l2vpn-connection-information | vpls-connection-information | vpls-statistics-information
| vpls-ldp-dynamic-interface-repository-entity | mvpn-instance-information>
  <instance>
    <instance-name>instance-name</instance-name>
    <instance-display-error>instance-display-error</instance-display-error>
    <reference-site>...</reference-site>
    <ldp-vpls-reference-site>...</ldp-vpls-reference-site>
    <vpls-protocol-state>...</vpls-protocol-state>
    <vpls-rsvp-te-ingress-p2mp-lsp>...</vpls-rsvp-te-ingress-p2mp-lsp>
    <provider-tunnel>...</provider-tunnel>
    <neighbor>...</neighbor>
    <c-multicast-ipv4>...</c-multicast-ipv4>
    <c-multicast-ipv6>...</c-multicast-ipv6>
  </instance>
</l2vpn-connection-information | vpls-connection-information |
vpls-statistics-information | vpls-ldp-dynamic-interface-repository-entity |
mvpn-instance-information>
```

Description No documentation is available yet.

Contents

<c-multicast-ipv4>—No documentation is available yet.

<c-multicast-ipv6>—No documentation is available yet.

<instance-display-error>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<ldp-vpls-reference-site>—Information about LDP-VPLS.

<neighbor>—No documentation is available yet.

<provider-tunnel>—No documentation is available yet.

<reference-site>—No documentation is available yet.

<vpls-protocol-state>—No documentation is available yet.

<vpls-rsvp-te-ingress-p2mp-lsp>—No documentation is available yet.

<instance-core>

Usage

```
<instance-information>
  <instance-core>
    <instance-name>instance-name</instance-name>
    <instance-description>instance-description</instance-description>
    <router-id>router-id</router-id>
    <instance-type>instance-type</instance-type>
    <instance-state>instance-state</instance-state>
    <instance-restart-state>instance-restart-state</instance-restart-state>
    <instance-pathsel-timeout>instance-pathsel-timeout</instance-pathsel-timeout>
    <instance-rib>...</instance-rib>
    <instance-interface>...</instance-interface>
    <instance-vrf>...</instance-vrf>
  </instance-core>
</instance-information>
```

Description No documentation is available yet.

Contents

<instance-description>—No documentation is available yet.

<instance-interface>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<instance-pathsel-timeout>—Maximum time to defer path selection in instance.

<instance-restart-state>—Whether all tables in instance are done with restart.

<instance-rib>—No documentation is available yet.

<instance-state>—No documentation is available yet.

<instance-type>—No documentation is available yet.

<instance-vrf>—No documentation is available yet.

<router-id>—No documentation is available yet.

<instance-entry>

Usage

```
<mvpn-instance>
  <instance-entry>
    <instance-name>instance-name</instance-name>
    <instance-display-error>instance-display-error</instance-display-error>
    <provider-tunnel>...</provider-tunnel>
    <neighbor>...</neighbor>
    <c-multicast-ipv4>...</c-multicast-ipv4>
    <c-multicast-ipv6>...</c-multicast-ipv6>
  </instance-entry>
</mvpn-instance>
```

Description No documentation is available yet.

Contents <c-multicast-ipv4>—No documentation is available yet.

<c-multicast-ipv6>—No documentation is available yet.

<instance-display-error>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<neighbor>—No documentation is available yet.

<provider-tunnel>—No documentation is available yet.

<instance-entry-summary>

Usage

```
<mvpn-instance>
  <instance-entry-summary>
    <neighbor-summary>...</neighbor-summary>
    <c-multicast-summary>...</c-multicast-summary>
  </instance-entry-summary>
</mvpn-instance>
```

Description No documentation is available yet.

Contents <c-multicast-summary>—No documentation is available yet.

<neighbor-summary>—No documentation is available yet.

<instance-information>

Usage

```
<rpc-reply>
  <instance-information>
    <instance-core>...</instance-core>
  </instance-information>
</rpc-reply>
```

Description Operational and configuration information for routing instances.

Contents <instance-core>—No documentation is available yet.

<instance-interface>

Usage

```
<instance-core>
  <instance-interface>
    <interface-name>interface-name</interface-name>
  </instance-interface>
</instance-core>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<instance-rib>

Usage

```
<instance-core>
  <instance-rib>
    <irib-name>irib-name</irib-name>
    <irib-route-count>irib-route-count</irib-route-count>
    <irib-active-count>irib-active-count</irib-active-count>
    <irib-holddown-count>irib-holddown-count</irib-holddown-count>
    <irib-hidden-count>irib-hidden-count</irib-hidden-count>
    <irib-restart-state>irib-restart-state</irib-restart-state>
  </instance-rib>
</instance-core>
```

Description No documentation is available yet.

Contents <irib-active-count>—No documentation is available yet.

<irib-hidden-count>—No documentation is available yet.

<irib-holddown-count>—No documentation is available yet.

<irib-name>—No documentation is available yet.

<irib-restart-state>—No documentation is available yet.

<irib-route-count>—No documentation is available yet.

<instance-vrf>

Usage

```
<instance-core>
  <instance-vrf>
    <route-distinguisher>route-distinguisher</route-distinguisher>
    <vrf-import>vrf-import</vrf-import>
    <vrf-export>vrf-export</vrf-export>
    <vrf-import-target>vrf-import-target</vrf-import-target>
    <vrf-export-target>vrf-export-target</vrf-export-target>
    <fast-reroute-priority>fast-reroute-priority</fast-reroute-priority>
  </instance-vrf>
</instance-core>
```

Description No documentation is available yet.

Contents <fast-reroute-priority>—No documentation is available yet.

<route-distinguisher>—No documentation is available yet.

<vrf-export>—No documentation is available yet.

<vrf-export-target>—No documentation is available yet.

<vrf-import>—No documentation is available yet.

<vrf-import-target>—No documentation is available yet.

<interface>

Usage

```
<mesh-group-interfaces | reference-site | ldp-vpls-reference-site | vpls-protocol-state |
interface-statistics>
  <interface>
    <interface-name>interface-name</interface-name>
    <interface-id>interface-id</interface-id>
    <interface-description>interface-description</interface-description>
    <local-interface-index>local-interface-index</local-interface-index>
    <interface-flags>interface-flags</interface-flags>
    <interface-flags-description>interface-flags-description
                </interface-flags-description>
  </interface>
</mesh-group-interfaces | reference-site | ldp-vpls-reference-site | vpls-protocol-state |
interface-statistics>
```

Description No documentation is available yet.

Contents <interface-description>—No documentation is available yet.

<interface-flags>—No documentation is available yet.

<interface-flags-description>—No documentation is available yet.

<interface-id>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<local-interface-index>—SNMP ifIndex of local interface.

<interface-level-data>

Usage

```
<isis-interface>
  <interface-level-data>
    <level>level</level>
    <adjacency-count>adjacency-count</adjacency-count>
    <interface-priority>interface-priority</interface-priority>
    <metric>metric</metric>
    <te-metric>te-metric</te-metric>
    <passive>passive</passive>
    <hello-time>hello-time</hello-time>
    <holdtime>holdtime</holdtime>
    <dr-id-one>dr-id-one</dr-id-one>
    <dr-id-two>dr-id-two</dr-id-two>
    <dr-flag>dr-flag</dr-flag>
    <isis-interface-level-topology>...</isis-interface-level-topology>
  </interface-level-data>
</isis-interface>
```

Description No documentation is available yet.

Contents

<adjacency-count>—No documentation is available yet.

<dr-flag>—No documentation is available yet.

<dr-id-one>—No documentation is available yet.

<dr-id-two>—No documentation is available yet.

<hello-time>—No documentation is available yet.

<holdtime>—Hold time configured with the hold-time statement. The default hold time is 90 seconds. The hold time is three times the interval at which keepalive messages are sent.

<interface-priority>—No documentation is available yet.

<isis-interface-level-topology>—Topology-specific information for an interface level.

<level>—No documentation is available yet.

<metric>—No documentation is available yet.

<passive>—No documentation is available yet.

<te-metric>—No documentation is available yet.

<interface-statistics>

Usage

```
<vpls-statistics-information>
  <interface-statistics>
    <interface>...</interface>
    <remote-pe>remote-pe</remote-pe>
    <broadcast-packets>broadcast-packets</broadcast-packets>
    <broadcast-bytes>broadcast-bytes</broadcast-bytes>
    <multicast-packets>multicast-packets</multicast-packets>
    <multicast-bytes>multicast-bytes</multicast-bytes>
    <flooded-packets>flooded-packets</flooded-packets>
    <flooded-bytes>flooded-bytes</flooded-bytes>
    <unicast-packets>unicast-packets</unicast-packets>
    <unicast-bytes>unicast-bytes</unicast-bytes>
    <mac-limit>mac-limit</mac-limit>
    <num-mac-count>num-mac-count</num-mac-count>
  </interface-statistics>
</vpls-statistics-information>
```

Description No documentation is available yet.

Contents

<broadcast-bytes>—Broadcast bytes.

<broadcast-packets>—Broadcast packets.

<flooded-bytes>—Flooded bytes.

<flooded-packets>—Flooded packets.

<interface>—No documentation is available yet.

<mac-limit>—Limit of number of addresses learned on interface.

<multicast-bytes>—Multicast bytes.

<multicast-packets>—Multicast packets.

<num-mac-count>—Number of addresses learned on the interface.

<remote-pe>—No documentation is available yet.

<unicast-bytes>—Unicast bytes.

<unicast-packets>—Unicast packets.

<ip-prefix-tlv>

Usage

```
<isis-tlv>
  <ip-prefix-tlv>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <address-prefix>address-prefix</address-prefix>
    <metric>metric</metric>
    <prefix-status>prefix-status</prefix-status>
    <subtlv-size>subtlv-size</subtlv-size>
    <isis-prefix-subtlv>...</isis-prefix-subtlv>
  </ip-prefix-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<isis-prefix-subtlv>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<prefix-status>—No documentation is available yet.

<subtlv-size>—No documentation is available yet.

<ipaddress-tlv>

Usage

```
<isis-tlv>
  <ipaddress-tlv>
    <address>address</address>
  </ipaddress-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<ipv6-ra-advertisement>

Usage

```
<ipv6-ra-interface>
  <ipv6-ra-advertisement>
    <ipv6-source-address>ipv6-source-address</ipv6-source-address>
    <ipv6-ra-time-since>ipv6-ra-time-since</ipv6-ra-time-since>
    <ipv6-ra-managed-flag>ipv6-ra-managed-flag</ipv6-ra-managed-flag>
    <ipv6-ra-managed-flag-conflict>ipv6-ra-managed-flag-conflict
                </ipv6-ra-managed-flag-conflict>
    <ipv6-ra-other-config-flag>ipv6-ra-other-config-flag
                </ipv6-ra-other-config-flag>
    <ipv6-ra-other-config-flag-conflict>ipv6-ra-other-config-flag-conflict
                </ipv6-ra-other-config-flag-conflict>
    <ipv6-ra-link-mtu>ipv6-ra-link-mtu</ipv6-ra-link-mtu>
    <ipv6-ra-link-mtu-conflict>ipv6-ra-link-mtu-conflict
                </ipv6-ra-link-mtu-conflict>
    <ipv6-ra-reachable-time>ipv6-ra-reachable-time</ipv6-ra-reachable-time>
    <ipv6-ra-reachable-time-conflict>ipv6-ra-reachable-time-conflict
                </ipv6-ra-reachable-time-conflict>
    <ipv6-ra-default-lifetime>ipv6-ra-default-lifetime</ipv6-ra-default-lifetime>
    <ipv6-ra-default-lifetime-conflict>ipv6-ra-default-lifetime-conflict
                </ipv6-ra-default-lifetime-conflict>
    <ipv6-ra-retransmit-timer>ipv6-ra-retransmit-timer</ipv6-ra-retransmit-timer>
    <ipv6-ra-retransmit-timer-conflict>ipv6-ra-retransmit-timer-conflict
                </ipv6-ra-retransmit-timer-conflict>
    <ipv6-ra-current-hop-limit>ipv6-ra-current-hop-limit
                </ipv6-ra-current-hop-limit>
    <ipv6-ra-current-hop-limit-conflict>ipv6-ra-current-hop-limit-conflict
                </ipv6-ra-current-hop-limit-conflict>
    <ipv6-ra-prefix>...</ipv6-ra-prefix>
  </ipv6-ra-advertisement>
</ipv6-ra-interface>
```

Description No documentation is available yet.

Contents

<ipv6-ra-current-hop-limit>—Advertised current hop limit flag.

<ipv6-ra-current-hop-limit-conflict>—Conflict with the advertised current hop limit flag.

<ipv6-ra-default-lifetime>—Advertised default lifetime flag.

<ipv6-ra-default-lifetime-conflict>—Conflict with the advertised default lifetime flag.

<ipv6-ra-link-mtu>—Advertised link MTU.

<ipv6-ra-link-mtu-conflict>—Conflict with the advertised link MTU.

<ipv6-ra-managed-flag>—Advertised managed flag.

<ipv6-ra-managed-flag-conflict>—Conflict with the advertised managed flag.

<ipv6-ra-other-config-flag>—Advertised other configuration flag.

<ipv6-ra-other-config-flag-conflict>—Conflict with the advertised other configuration

flag.

<ipv6-ra-prefix>—No documentation is available yet.

<ipv6-ra-reachable-time>—Advertised reachable time.

<ipv6-ra-reachable-time-conflict>—Conflict with the advertised reachable time.

<ipv6-ra-retransmit-timer>—Advertised retransmit timer flag.

<ipv6-ra-retransmit-timer-conflict>—Conflict with the advertised retransmit timer flag.

<ipv6-ra-time-since>—How long since the advertisement was received.

<ipv6-source-address>—Sender of the advertisement.

<ipv6-ra-information>

Usage

```
<rpc-reply>
  <ipv6-ra-information>
    <ipv6-ra-interface>...</ipv6-ra-interface>
  </ipv6-ra-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ipv6-ra-interface>—No documentation is available yet.

<ipv6-ra-interface>

Usage

```
<ipv6-ra-information>
  <ipv6-ra-interface>
    <interface-name>interface-name</interface-name>
    <ipv6-ra-advertisements-sent>ipv6-ra-advertisements-sent
                </ipv6-ra-advertisements-sent>
    <ipv6-ra-advertisement-sent-time>ipv6-ra-advertisement-sent-time
                </ipv6-ra-advertisement-sent-time>
    <ipv6-ra-solicits-received>ipv6-ra-solicits-received
                </ipv6-ra-solicits-received>
    <ipv6-ra-solicit-receive-time>ipv6-ra-solicit-receive-time
                </ipv6-ra-solicit-receive-time>
    <ipv6-ra-advertisements-received>ipv6-ra-advertisements-received
                </ipv6-ra-advertisements-received>
    <vrrp-group>...</vrrp-group>
    <ipv6-ra-advertisement>...</ipv6-ra-advertisement>
  </ipv6-ra-interface>
</ipv6-ra-information>
```

Description No documentation is available yet.

Contents

<interface-name>—No documentation is available yet.

<ipv6-ra-advertisement>—No documentation is available yet.

<ipv6-ra-advertisement-sent-time>—How long since the last router advertisement was sent.

<ipv6-ra-advertisements-received>—Number of router advertisements received.

<ipv6-ra-advertisements-sent>—Number of router advertisements sent.

<ipv6-ra-solicit-receive-time>—How long since the last router solicitation was sent.

<ipv6-ra-solicits-received>—Number of router solicitations received.

<vrrp-group>—No documentation is available yet.

<ipv6-ra-prefix>

Usage

```
<ipv6-ra-advertisement>
  <ipv6-ra-prefix>
    <ipv6-ra-prefix-address>ipv6-ra-prefix-address</ipv6-ra-prefix-address>
    <ipv6-ra-prefix-valid-lifetime>ipv6-ra-prefix-valid-lifetime
                </ipv6-ra-prefix-valid-lifetime>
    <ipv6-ra-prefix-valid-lifetime-conflict>ipv6-ra-prefix-valid-lifetime-conflict
                </ipv6-ra-prefix-valid-lifetime-conflict>
    <ipv6-ra-prefix-preferred-lifetime>ipv6-ra-prefix-preferred-lifetime
                </ipv6-ra-prefix-preferred-lifetime>
    <ipv6-ra-prefix-preferred-lifetime-conflict>ipv6-ra-prefix-preferred-lifetime-conflict
                </ipv6-ra-prefix-preferred-lifetime-conflict>
    <ipv6-ra-prefix-on-link>ipv6-ra-prefix-on-link</ipv6-ra-prefix-on-link>
    <ipv6-ra-prefix-on-link-conflict>ipv6-ra-prefix-on-link-conflict
                </ipv6-ra-prefix-on-link-conflict>
    <ipv6-ra-prefix-autonomous>ipv6-ra-prefix-autonomous
                </ipv6-ra-prefix-autonomous>
    <ipv6-ra-prefix-autonomous-conflict>ipv6-ra-prefix-autonomous-conflict
                </ipv6-ra-prefix-autonomous-conflict>
  </ipv6-ra-prefix>
</ipv6-ra-advertisement>
```

Description No documentation is available yet.

Contents

<ipv6-ra-prefix-address>—Advertised prefix.

<ipv6-ra-prefix-autonomous>—Advertised autonomous flag of the prefix.

<ipv6-ra-prefix-autonomous-conflict>—Conflict with the advertised autonomous flag of the prefix.

<ipv6-ra-prefix-on-link>—Advertised on-link flag of the prefix.

<ipv6-ra-prefix-on-link-conflict>—Conflict with the advertised on-link flag of the prefix.

<ipv6-ra-prefix-preferred-lifetime>—Advertised preferred lifetime of the prefix.

<ipv6-ra-prefix-preferred-lifetime-conflict>—Conflict with the advertised preferred lifetime of the prefix.

<ipv6-ra-prefix-valid-lifetime>—Advertised valid lifetime of the prefix.

<ipv6-ra-prefix-valid-lifetime-conflict>—Conflict with the advertised valid lifetime of the prefix.

<ipv6-reachability-tlv>

Usage

```
<isis-tlv>
  <ipv6-reachability-tlv>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <ipv6-address>ipv6-address</ipv6-address>
    <metric>metric</metric>
    <prefix-extern/>
    <prefix-downflag/>
    <subtlv-size>subtlv-size</subtlv-size>
    <isis-prefix-subtlv>...</isis-prefix-subtlv>
  </ipv6-reachability-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <ipv6-address>—No documentation is available yet.

<isis-prefix-subtlv>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<prefix-downflag>—No documentation is available yet.

<prefix-extern>—No documentation is available yet.

<subtlv-size>—No documentation is available yet.

<ipv6address-tlv>

Usage

```
<isis-tlv>
  <ipv6address-tlv>
    <address>address</address>
  </ipv6address-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<is-reachability>

Usage

```
<isis-database-local-data>
  <is-reachability>
    <isis-fragment>isis-fragment</isis-fragment>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <is-neighbor-id>is-neighbor-id</is-neighbor-id>
    <flags>flags</flags>
    <isis-pseudonode>isis-pseudonode</isis-pseudonode>
    <interface-name>interface-name</interface-name>
    <metric>metric</metric>
    <subtlv-size>subtlv-size</subtlv-size>
    <te-metric>te-metric</te-metric>
    <local-address>local-address</local-address>
    <remote-address>remote-address</remote-address>
    <local-ifindex>local-ifindex</local-ifindex>
    <remote-ifindex>remote-ifindex</remote-ifindex>
    <level>level</level>
  </is-reachability>
</isis-database-local-data>
```

Description No documentation is available yet.

Contents <flags>—Enabled trace flags.

<interface-name>—No documentation is available yet.

<is-neighbor-id>—No documentation is available yet.

<isis-fragment>—No documentation is available yet.

<isis-pseudonode>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<level>—No documentation is available yet.

<local-address>—No documentation is available yet.

<local-ifindex>—Local interface index.

<metric>—No documentation is available yet.

<remote-address>—No documentation is available yet.

<remote-ifindex>—Remote interface index.

<subtlv-size>—No documentation is available yet.

<te-metric>—No documentation is available yet.

<isis-adjacency>

Usage

```
<isis-adjacency-information>
  <isis-adjacency>
    <interface-name>interface-name</interface-name>
    <system-name>system-name</system-name>
    <not-remote-address/>
    <level>level</level>
    <adjacency-state>adjacency-state</adjacency-state>
    <holdtime>holdtime</holdtime>
    <interface-priority>interface-priority</interface-priority>
    <transition-count>transition-count</transition-count>
    <last-transition-time>last-transition-time</last-transition-time>
    <circuit-type>circuit-type</circuit-type>
    <adjacency-restart-capable>adjacency-restart-capable
                </adjacency-restart-capable>
    <adjacency-advertisement>adjacency-advertisement</adjacency-advertisement>
    <adjacency-flag>adjacency-flag</adjacency-flag>
    <adjacency-topologies>adjacency-topologies</adjacency-topologies>
    <mac-address>mac-address</mac-address>
    <lan-id>lan-id</lan-id>
    <ip-address>ip-address</ip-address>
    <ipv6-address>ipv6-address</ipv6-address>
    <snpa>snpa</snpa>
    <isis-adjacency-log>...</isis-adjacency-log>
  </isis-adjacency>
</isis-adjacency-information>
```

Description No documentation is available yet.

Contents

<adjacency-advertisement>—State of the adjacency advertisment.

<adjacency-flag>—No documentation is available yet.

<adjacency-restart-capable>—Restart capability of the adjacency.

<adjacency-state>—State of the adjacency.

<adjacency-topologies>—No documentation is available yet.

<circuit-type>—No documentation is available yet.

<holdtime>—Hold time configured with the hold-time statement. The default hold time is 90 seconds. The hold time is three times the interval at which keepalive messages are sent.

<interface-name>—No documentation is available yet.

<interface-priority>—No documentation is available yet.

<ip-address>—No documentation is available yet.

<ipv6-address>—No documentation is available yet.

<isis-adjacency-log>—Entry describing adjacency transition.

<lan-id>—No documentation is available yet.

<last-transition-time>—No documentation is available yet.

<level>—No documentation is available yet.

<mac-address>—No documentation is available yet.

<not-remote-address>—No documentation is available yet.

<snpa>—No documentation is available yet.

<system-name>—Hostname for a system.

<transition-count>—No documentation is available yet.

<isis-adjacency-information>

Usage

```
<rpc-reply>
  <isis-adjacency-information>
    <isis-adjacency>...</isis-adjacency>
  </isis-adjacency-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-adjacency>—No documentation is available yet.

<isis-adjacency-log>

Usage

```
<isis-adjacency>
  <isis-adjacency-log>
    <adjacency-when>adjacency-when</adjacency-when>
    <adjacency-state>adjacency-state</adjacency-state>
    <adjacency-event>adjacency-event</adjacency-event>
    <adjacency-down-reason>adjacency-down-reason</adjacency-down-reason>
  </isis-adjacency-log>
</isis-adjacency>
```

Description Entry describing adjacency transition.

Contents <adjacency-down-reason>—Reason for the down transition event.

<adjacency-event>—Event which triggered the transition.

<adjacency-state>—State of the adjacency.

<adjacency-when>—Time at which the transition occurred.

<isis-authentication-information>

Usage
```
<rpc-reply>
  <isis-authentication-information>
    <isis-interface-authentication>...</isis-interface-authentication>
    <isis-lsp-authentication>...</isis-lsp-authentication>
  </isis-authentication-information>
</rpc-reply>
```

Description ISIS authentication information.

Contents <isis-interface-authentication>—No documentation is available yet.

<isis-lsp-authentication>—Authentication type for LSP packets.

<isis-backup-coverage>

Usage
```
<isis-backup-coverage-information>
  <isis-backup-coverage>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <level>level</level>
    <isis-node-coverage>isis-node-coverage</isis-node-coverage>
    <isis-route-coverage-ipv4>isis-route-coverage-ipv4</isis-route-coverage-ipv4>
    <isis-route-coverage-ipv6>isis-route-coverage-ipv6</isis-route-coverage-ipv6>
    <isis-route-coverage-clns>isis-route-coverage-clns</isis-route-coverage-clns>
  </isis-backup-coverage>
</isis-backup-coverage-information>
```

Description No documentation is available yet.

Contents <isis-node-coverage>—No documentation is available yet.

<isis-route-coverage-clns>—No documentation is available yet.

<isis-route-coverage-ipv4>—No documentation is available yet.

<isis-route-coverage-ipv6>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<level>—No documentation is available yet.

<isis-backup-coverage-information>

Usage
```
<rpc-reply>
  <isis-backup-coverage-information>
    <isis-backup-coverage>...</isis-backup-coverage>
  </isis-backup-coverage-information>
</rpc-reply>
```

Description ISIS backup coverage information.

Contents <isis-backup-coverage>—No documentation is available yet.

<isis-backup-mplsp>

Usage

```
<isis-backup-mplsp-information>
  <isis-backup-mplsp>
    <lsp-name>lsp-name</lsp-name>
    <lsp-status>lsp-status</lsp-status>
    <lsp-addr>lsp-addr</lsp-addr>
    <metric>metric</metric>
    <te-metric>te-metric</te-metric>
    <lsp-last-change>lsp-last-change</lsp-last-change>
    <lsp-refcount>lsp-refcount</lsp-refcount>
  </isis-backup-mplsp>
</isis-backup-mplsp-information>
```

Description No documentation is available yet.

Contents <lsp-addr>—No documentation is available yet.

<lsp-last-change>—No documentation is available yet.

<lsp-name>—Tunneled into an RSVP LSP.

<lsp-refcount>—No documentation is available yet.

<lsp-status>—No documentation is available yet.

<metric>—No documentation is available yet.

<te-metric>—No documentation is available yet.

<isis-backup-mplsp-information>

Usage

```
<rpc-reply>
  <isis-backup-mplsp-information>
    <isis-backup-mplsp>...</isis-backup-mplsp>
  </isis-backup-mplsp-information>
</rpc-reply>
```

Description ISIS backup MPLSP information.

Contents <isis-backup-mplsp>—No documentation is available yet.

<isis-backup-spf-result>

Usage

```
<isis-spf>
  <isis-backup-spf-result>
    <node-id>node-id</node-id>
    <no-first-fragment/>
    <backup-root>backup-root</backup-root>
    <backup-root-metric>backup-root-metric</backup-root-metric>
    <metric>metric</metric>
    <track-item>track-item</track-item>
    <next-hop-element>...</next-hop-element>
    <backup-next-hop-element>...</backup-next-hop-element>
    <no-coverage-reason>no-coverage-reason</no-coverage-reason>
  </isis-backup-spf-result>
</isis-spf>
```

Description No documentation is available yet.

Contents <backup-next-hop-element>—No documentation is available yet.

<backup-root>—No documentation is available yet.

<backup-root-metric>—No documentation is available yet.

<metric>—No documentation is available yet.

<next-hop-element>—No documentation is available yet.

<no-coverage-reason>—No documentation is available yet.

<no-first-fragment>—No documentation is available yet.

<node-id>—No documentation is available yet.

<track-item>—No documentation is available yet.

<isis-database>

Usage

```
<isis-database-information>
  <isis-database>
    <level>level</level>
    <isis-database-entry>...</isis-database-entry>
    <lsp-count>lsp-count</lsp-count>
  </isis-database>
</isis-database-information>
```

Description No documentation is available yet.

Contents <isis-database-entry>—No documentation is available yet.

<level>—No documentation is available yet.

<lsp-count>—No documentation is available yet.

<isis-database-entry>

Usage

```
<isis-database>
  <isis-database-entry>
    <lsp-id>lsp-id</lsp-id>
    <sequence-number>sequence-number</sequence-number>
    <checksum>checksum</checksum>
    <remaining-lifetime>remaining-lifetime</remaining-lifetime>
    <lsp-attributes>lsp-attributes</lsp-attributes>
    <isis-neighbor>...</isis-neighbor>
    <isis-prefix>...</isis-prefix>
    <isis-header>...</isis-header>
    <isis-packet>...</isis-packet>
    <lsp-stub/>
    <isis-tlv>...</isis-tlv>
    <transmission-status>...</transmission-status>
    <isis-es-neighbor>...</isis-es-neighbor>
  </isis-database-entry>
</isis-database>
```

Description No documentation is available yet.

Contents <checksum>—No documentation is available yet.

<isis-es-neighbor>—No documentation is available yet.

<isis-header>—No documentation is available yet.

<isis-neighbor>—No documentation is available yet.

<isis-packet>—No documentation is available yet.

<isis-prefix>—No documentation is available yet.

<isis-tlv>—No documentation is available yet.

<lsp-attributes>—No documentation is available yet.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<lsp-stub>—No documentation is available yet.

<remaining-lifetime>—No documentation is available yet.

<sequence-number>—History event number.

<transmission-status>—No documentation is available yet.

<isis-database-information>

Usage
```
<rpc-reply>
  <isis-database-information>
    <isis-database>...</isis-database>
  </isis-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-database>—No documentation is available yet.

<isis-database-local>

Usage
```
<isis-database-local-information>
  <isis-database-local>
    <level>level</level>
    <isis-database-local-entry>...</isis-database-local-entry>
  </isis-database-local>
</isis-database-local-information>
```

Description Information about one or more entries in the IS-IS database that originated locally.

Contents <isis-database-local-entry>—Information about an entry that originated locally.

<level>—No documentation is available yet.

<isis-database-local-data>

Usage

```
<isis-database-local-entry>
  <isis-database-local-data>
    <isis-database-local-data-type>isis-database-local-data-type
                </isis-database-local-data-type>
    <isis-database-local-data-name>isis-database-local-data-name
                </isis-database-local-data-name>
    <tlv-size>tlv-size</tlv-size>
    <address>address</address>
    <protocol>protocol</protocol>
    <mtid>mtid</mtid>
    <router-id>router-id</router-id>
    <hostname>hostname</hostname>
    <prefix-reachability>...</prefix-reachability>
    <is-reachability>...</is-reachability>
    <unknown-local-data>unknown-local-data</unknown-local-data>
  </isis-database-local-data>
</isis-database-local-entry>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<hostname>—No documentation is available yet.

<is-reachability>—No documentation is available yet.

<isis-database-local-data-name>—No documentation is available yet.

<isis-database-local-data-type>—No documentation is available yet.

<mtid>—No documentation is available yet.

<prefix-reachability>—No documentation is available yet.

<protocol>—No documentation is available yet.

<router-id>—No documentation is available yet.

<tlv-size>—No documentation is available yet.

<unknown-local-data>—No documentation is available yet.

<isis-database-local-entry>

Usage

```
<isis-database-local>
  <isis-database-local-entry>
    <lsp-id>lsp-id</lsp-id>
    <sequence-number>sequence-number</sequence-number>
    <checksum>checksum</checksum>
    <remaining-lifetime>remaining-lifetime</remaining-lifetime>
    <lsp-attributes>lsp-attributes</lsp-attributes>
    <isis-database-local-data>...</isis-database-local-data>
    <estimated-free-bytes>estimated-free-bytes</estimated-free-bytes>
  </isis-database-local-entry>
</isis-database-local>
```

Description Information about an entry that originated locally.

Contents <checksum>—No documentation is available yet.

<estimated-free-bytes>—No documentation is available yet.

<isis-database-local-data>—No documentation is available yet.

<lsp-attributes>—No documentation is available yet.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<remaining-lifetime>—No documentation is available yet.

<sequence-number>—History event number.

<isis-database-local-information>

Usage

```
<rpc-reply>
  <isis-database-local-information>
    <isis-database-local>...</isis-database-local>
  </isis-database-local-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-database-local>—Information about one or more entries in the IS-IS database that originated locally.

<isis-es-neighbor>

Usage

```
<isis-database-entry>
  <isis-es-neighbor>
    <es-neighbor-id>es-neighbor-id</es-neighbor-id>
    <metric>metric</metric>
    <reachability-delay/>
    <reachability-expense/>
    <reachability-error/>
  </isis-es-neighbor>
</isis-database-entry>
```

Description No documentation is available yet.

Contents <es-neighbor-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<reachability-delay>—No documentation is available yet.

<reachability-error>—No documentation is available yet.

<reachability-expense>—No documentation is available yet.

<isis-header>

Usage

```
<isis-database-entry>
  <isis-header>
    <lsp-id>lsp-id</lsp-id>
    <pdu-length>pdu-length</pdu-length>
    <allocated-length>allocated-length</allocated-length>
    <router-id>router-id</router-id>
    <remaining-lifetime>remaining-lifetime</remaining-lifetime>
    <level>level</level>
    <interface-index>interface-index</interface-index>
    <estimated-free-bytes>estimated-free-bytes</estimated-free-bytes>
    <actual-free-bytes>actual-free-bytes</actual-free-bytes>
    <lsdb-timer-type>lsdb-timer-type</lsdb-timer-type>
    <lsdb-expiration-time>lsdb-expiration-time</lsdb-expiration-time>
    <needs-rebuild/>
    <protocol>protocol</protocol>
  </isis-header>
</isis-database-entry>
```

Description No documentation is available yet.

Contents <actual-free-bytes>—No documentation is available yet.

<allocated-length>—No documentation is available yet.

<estimated-free-bytes>—No documentation is available yet.

<interface-index>—No documentation is available yet.

<level>—No documentation is available yet.

<lsdb-expiration-time>—No documentation is available yet.

<lsdb-timer-type>—No documentation is available yet.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<needs-rebuild>—No documentation is available yet.

<pdu-length>—No documentation is available yet.

<protocol>—No documentation is available yet.

<remaining-lifetime>—No documentation is available yet.

<router-id>—No documentation is available yet.

<isis-hostname>

Usage
```
<isis-hostname-information>
  <isis-hostname>
    <system-id>system-id</system-id>
    <system-name>system-name</system-name>
    <isis-hostname-type>isis-hostname-type</isis-hostname-type>
  </isis-hostname>
</isis-hostname-information>
```

Description Entry in the system-ID-to-hostname mapping table.

Contents <isis-hostname-type>—Type of system-ID-to-hostname mapping.

<system-id>—Six-octet ISO system ID for a system.

<system-name>—Hostname for a system.

<isis-hostname-information>

Usage
```
<rpc-reply>
  <isis-hostname-information>
    <isis-hostname>...</isis-hostname>
  </isis-hostname-information>
</rpc-reply>
```

Description System-ID-to-hostname mapping table.

Contents <isis-hostname>—Entry in the system-ID-to-hostname mapping table.

<isis-interface>

Usage

```
<isis-interface-information>
  <isis-interface>
    <interface-name>interface-name</interface-name>
    <circuit-type>circuit-type</circuit-type>
    <circuit-id>circuit-id</circuit-id>
    <isis-interface-state-one>isis-interface-state-one</isis-interface-state-one>
    <isis-interface-state-two>isis-interface-state-two</isis-interface-state-two>
    <interface-disabled-flag/>
    <dr-id-one>dr-id-one</dr-id-one>
    <dr-id-two>dr-id-two</dr-id-two>
    <metric-one>metric-one</metric-one>
    <metric-two>metric-two</metric-two>
    <interface-index>interface-index</interface-index>
    <interface-state-value>interface-state-value</interface-state-value>
    <lsp-interval>lsp-interval</lsp-interval>
    <csnp-interval>csnp-interval</csnp-interval>
    <hello-padding>hello-padding</hello-padding>
    <interface-protection-type>interface-protection-type
                </interface-protection-type>
    <no-eligible-backup/>
    <system-name>system-name</system-name>
    <mesh-group>mesh-group</mesh-group>
    <adjacency-advertisement>adjacency-advertisement</adjacency-advertisement>
    <interface-level-data>...</interface-level-data>
    <igp-ldp-sync-holdtime>igp-ldp-sync-holdtime</igp-ldp-sync-holdtime>
    <igp-ldp-sync-state>igp-ldp-sync-state</igp-ldp-sync-state>
    <igp-ldp-sync-last-change>igp-ldp-sync-last-change</igp-ldp-sync-last-change>
    <igp-ldp-sync-reason>igp-ldp-sync-reason</igp-ldp-sync-reason>
    <igp-ldp-sync-timeleft>igp-ldp-sync-timeleft</igp-ldp-sync-timeleft>
  </isis-interface>
</isis-interface-information>
```

Description No documentation is available yet.

Contents

<adjacency-advertisement>—State of the adjacency advertisment.

<circuit-id>—No documentation is available yet.

<circuit-type>—No documentation is available yet.

<csnp-interval>—No documentation is available yet.

<dr-id-one>—No documentation is available yet.

<dr-id-two>—No documentation is available yet.

<hello-padding>—No documentation is available yet.

<igp-ldp-sync-holdtime>—Length of time during which the maximum metric is advertised for an interface that is in the hold-down state because synchronization was lost between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-last-change>—Time since the state of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP) last changed.

<igp-ldp-sync-reason>—Reason for the change in the state of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-state>—State of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-timeleft>—Remaining amount of time the interface will remain in the hold-down state because synchronization was lost between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<interface-disabled-flag>—No documentation is available yet.

<interface-index>—No documentation is available yet.

<interface-level-data>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<interface-protection-type>—No documentation is available yet.

<interface-state-value>—No documentation is available yet.

<isis-interface-state-one>—No documentation is available yet.

<isis-interface-state-two>—No documentation is available yet.

<lsp-interval>—No documentation is available yet.

<mesh-group>—No documentation is available yet.

<metric-one>—No documentation is available yet.

<metric-two>—No documentation is available yet.

<no-eligible-backup>—No documentation is available yet.

<system-name>—Hostname for a system.

<isis-interface-authentication>

Usage
```
<isis-authentication-information>
  <isis-interface-authentication>
    <interface-name>interface-name</interface-name>
    <isis-interface-level-authentication>...</isis-interface-level-authentication>
  </isis-interface-authentication>
</isis-authentication-information>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<isis-interface-level-authentication>—No documentation is available yet.

<isis-interface-information>

Usage
```
<rpc-reply>
  <isis-interface-information>
    <isis-interface>...</isis-interface>
  </isis-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-interface>—No documentation is available yet.

<isis-interface-level-authentication>

Usage
```
<isis-interface-authentication>
  <isis-interface-level-authentication>
    <level>level</level>
    <isis-interface-level-iih-authentication>isis-interface-level-iih-authentication
        </isis-interface-level-iih-authentication>
    <isis-interface-level-csn-authentication>isis-interface-level-csn-authentication
        </isis-interface-level-csn-authentication>
    <isis-interface-level-psn-authentication>isis-interface-level-psn-authentication
        </isis-interface-level-psn-authentication>
  </isis-interface-level-authentication>
</isis-interface-authentication>
```

Description No documentation is available yet.

Contents <isis-interface-level-csn-authentication>—Authentication type for CSN packets.

<isis-interface-level-iih-authentication>—Authentication type for IIH packets.

<isis-interface-level-psn-authentication>—Authentication type for PSN packets.

<level>—No documentation is available yet.

<isis-interface-level-topology>

Usage

```
<interface-level-data>
  <isis-interface-level-topology>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <isis-topology-metric>isis-topology-metric</isis-topology-metric>
  </isis-interface-level-topology>
</interface-level-data>
```

Description Topology-specific information for an interface level.

Contents <isis-topology-id>—No documentation is available yet.

<isis-topology-metric>—Metric for a topology.

<isis-iso-prefix-tlv>

Usage

```
<isis-tlv>
  <isis-iso-prefix-tlv>
    <metric>metric</metric>
    <metric-flag>metric-flag</metric-flag>
    <reachability-delay/>
    <reachability-expense/>
    <reachability-error/>
    <prefix-status>prefix-status</prefix-status>
    <iso-prefix>iso-prefix</iso-prefix>
  </isis-iso-prefix-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <iso-prefix>—No documentation is available yet.

<metric>—No documentation is available yet.

<metric-flag>—No documentation is available yet.

<prefix-status>—No documentation is available yet.

<reachability-delay>—No documentation is available yet.

<reachability-error>—No documentation is available yet.

<reachability-expense>—No documentation is available yet.

<isis-level-information>

Usage
```
<isis-overview>
  <isis-level-information>
    <isis-level>isis-level</isis-level>
    <isis-preference>isis-preference</isis-preference>
    <isis-external-preference>isis-external-preference</isis-external-preference>
    <isis-prefix-export-limit>isis-prefix-export-limit</isis-prefix-export-limit>
    <isis-narrow-metrics/>
    <isis-wide-metrics/>
  </isis-level-information>
</isis-overview>
```

Description IS-IS Level Information.

Contents <isis-external-preference>—IS-IS external route preference.

<isis-level>—IS-IS Level.

<isis-narrow-metrics>—Generation of narrow metric TLVs is enabled.

<isis-preference>—IS-IS internal route preference.

<isis-prefix-export-limit>—IS-IS limit for external route export.

<isis-wide-metrics>—Generation of wide metric TLVs is enabled.

<isis-lsp-authentication>

Usage
```
<isis-authentication-information>
  <isis-lsp-authentication>
    <level>level</level>
    <isis-level-lsp-authentication>isis-level-lsp-authentication
                  </isis-level-lsp-authentication>
  </isis-lsp-authentication>
</isis-authentication-information>
```

Description Authentication type for LSP packets.

Contents <isis-level-lsp-authentication>—Authentication type for LSP packets.

<level>—No documentation is available yet.

<isis-neighbor>

Usage

```
<isis-database-entry>
  <isis-neighbor>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <is-neighbor-id>is-neighbor-id</is-neighbor-id>
    <metric>metric</metric>
    <two-way-lsp-id>two-way-lsp-id</two-way-lsp-id>
    <firstfrag-lsp-id>firstfrag-lsp-id</firstfrag-lsp-id>
    <reachability-delay/>
    <reachability-expense/>
    <reachability-error/>
  </isis-neighbor>
</isis-database-entry>
```

Description No documentation is available yet.

Contents <firstfrag-lsp-id>—LSP ID of the neighbor first Fragment LSP.

<is-neighbor-id>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<reachability-delay>—No documentation is available yet.

<reachability-error>—No documentation is available yet.

<reachability-expense>—No documentation is available yet.

<two-way-lsp-id>—LSP ID of the neighbor LSP.

<isis-overload-information>

Usage

```
<isis-overview>
  <isis-overload-information>
    <isis-overload-enabled/>
    <isis-overload-high-metrics>isis-overload-high-metrics
                </isis-overload-high-metrics>
    <isis-overload-allow-route-leaking>isis-overload-allow-route-leaking
                </isis-overload-allow-route-leaking>
    <isis-overload-timeout>isis-overload-timeout</isis-overload-timeout>
    <isis-overload-remaining-time>isis-overload-remaining-time
                </isis-overload-remaining-time>
  </isis-overload-information>
</isis-overview>
```

Description Overload bit behaviour at startup.

Contents <isis-overload-allow-route-leaking>—Allow route leaking when configured to be in overload.

<isis-overload-enabled>—Overload bit upon startup is set.

<isis-overload-high-metrics>—High metrics are used for Overload signaling.

<isis-overload-remaining-time>—Time remaining on configured overload timeout.

<isis-overload-timeout>—Clearance of the Overload bit after startup.

<isis-overview>

Usage

```
<isis-overview-information>
  <isis-overview>
    <instance-name>instance-name</instance-name>
    <isis-router-id>isis-router-id</isis-router-id>
    <isis-max-areas>isis-max-areas</isis-max-areas>
    <isis-lsp-lifetime>isis-lsp-lifetime</isis-lsp-lifetime>
    <isis-reference-bandwidth>isis-reference-bandwidth</isis-reference-bandwidth>
    <isis-adjacency-holddown>isis-adjacency-holddown</isis-adjacency-holddown>
    <isis-attached-bit-evaluation>isis-attached-bit-evaluation
                </isis-attached-bit-evaluation>
    <isis-spf-information>...</isis-spf-information>
    <isis-overload-information>...</isis-overload-information>
    <isis-routing>...</isis-routing>
    <isis-traffic-engineering>...</isis-traffic-engineering>
    <isis-restart>...</isis-restart>
    <isis-level-information>...</isis-level-information>
  </isis-overview>
</isis-overview-information>
```

Description Overview information for an IS-IS instance.

Contents <instance-name>—No documentation is available yet.

<isis-adjacency-holddown>—IS-IS Adjacency holddown status.

<isis-attached-bit-evaluation>—The IS-IS L1 attached bit evaluation.

<isis-level-information>—IS-IS Level Information.

<isis-lsp-lifetime>—Maximum LSP lifetime.

<isis-max-areas>—Maximum Number of Areas.

<isis-overload-information>—Overload bit behaviour at startup.

<isis-reference-bandwidth>—Bandwidth for calculating metric defaults.

<isis-restart>—IS-IS restart parameters.

<isis-router-id>—IS-IS router ID.

<isis-routing>—List of routed IS-IS address families.

<isis-spf-information>—SPF options.

<isis-traffic-engineering>—Traffic engineering.

<isis-overview-information>

Usage

```
<rpc-reply>
  <isis-overview-information>
    <isis-overview>...</isis-overview>
  </isis-overview-information>
</rpc-reply>
```

Description ISIS overview information.

Contents <isis-overview>—Overview information for an IS-IS instance.

<isis-packet>

Usage

```
<isis-database-entry>
  <isis-packet>
    <lsp-id>lsp-id</lsp-id>
    <pdu-length>pdu-length</pdu-length>
    <pdu-lifetime>pdu-lifetime</pdu-lifetime>
    <checksum>checksum</checksum>
    <sequence-number>sequence-number</sequence-number>
    <lsp-attributes>lsp-attributes</lsp-attributes>
    <nlp-id>nlp-id</nlp-id>
    <mtid>mtid</mtid>
    <lsp-length>lsp-length</lsp-length>
    <pdu-version>pdu-version</pdu-version>
    <system-id-length>system-id-length</system-id-length>
    <isis-packet-type>isis-packet-type</isis-packet-type>
    <packet-version>packet-version</packet-version>
    <maximum-area>maximum-area</maximum-area>
  </isis-packet>
</isis-database-entry>
```

Description No documentation is available yet.

Contents <checksum>—No documentation is available yet.

<isis-packet-type>—No documentation is available yet.

<lsp-attributes>—No documentation is available yet.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<lsp-length>—No documentation is available yet.

<maximum-area>—No documentation is available yet.

<mtid>—No documentation is available yet.

<nlp-id>—No documentation is available yet.

<packet-version>—No documentation is available yet.

<pdu-length>—No documentation is available yet.

<pdu-lifetime>—No documentation is available yet.

<pdu-version>—No documentation is available yet.

<sequence-number>—History event number.

<system-id-length>—No documentation is available yet.

<isis-pdu-statistics>

Usage

```
<isis-statistics>
  <isis-pdu-statistics>
    <isis-pdu-type>isis-pdu-type</isis-pdu-type>
    <packets-received>packets-received</packets-received>
    <packets-processed>packets-processed</packets-processed>
    <packets-dropped>packets-dropped</packets-dropped>
    <packets-sent>packets-sent</packets-sent>
    <packets-retransmitted>packets-retransmitted</packets-retransmitted>
  </isis-pdu-statistics>
</isis-statistics>
```

Description No documentation is available yet.

Contents

<isis-pdu-type>—No documentation is available yet.

<packets-dropped>—No documentation is available yet.

<packets-processed>—No documentation is available yet.

<packets-received>—No documentation is available yet.

<packets-retransmitted>—No documentation is available yet.

<packets-sent>—No documentation is available yet.

<isis-prefix>

Usage

```
<isis-database-entry>
  <isis-prefix>
    <protocol-name>protocol-name</protocol-name>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <address-prefix>address-prefix</address-prefix>
    <metric>metric</metric>
    <prefix-flag>prefix-flag</prefix-flag>
    <prefix-status>prefix-status</prefix-status>
    <reachability-delay/>
    <reachability-expense/>
    <reachability-error/>
  </isis-prefix>
</isis-database-entry>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<prefix-flag>—No documentation is available yet.

<prefix-status>—No documentation is available yet.

<protocol-name>—No documentation is available yet.

<reachability-delay>—No documentation is available yet.

<reachability-error>—No documentation is available yet.

<reachability-expense>—No documentation is available yet.

<isis-prefix-subtlv>

Usage

```
<isis-tlv | ipv6-reachability-tlv | ip-prefix-tlv>
  <isis-prefix-subtlv>
    <isis-prefix-tag>...</isis-prefix-tag>
  </isis-prefix-subtlv>
</isis-tlv | ipv6-reachability-tlv | ip-prefix-tlv>
```

Description No documentation is available yet.

Contents <isis-prefix-tag>—No documentation is available yet.

<isis-prefix-tag>

Usage

```
<isis-prefix-subtlv | prefix-reachability>
  <isis-prefix-tag>
    <isis-prefix-tag-index>isis-prefix-tag-index</isis-prefix-tag-index>
    <isis-prefix-tag-value>isis-prefix-tag-value</isis-prefix-tag-value>
  </isis-prefix-tag>
</isis-prefix-subtlv | prefix-reachability>
```

Description No documentation is available yet.

Contents <isis-prefix-tag-index>—No documentation is available yet.

<isis-prefix-tag-value>—No documentation is available yet.

<isis-reachability-subtlv>

Usage

```
<reachability-tlv | isis-tlv>
  <isis-reachability-subtlv>
    <isis-subtlv-type>isis-subtlv-type</isis-subtlv-type>
    <subtlv-length>subtlv-length</subtlv-length>
    <max-bandwidth>max-bandwidth</max-bandwidth>
    <max-reserve-bandwidth>max-reserve-bandwidth</max-reserve-bandwidth>
    <current-bandwidth-header/>
    <current-reserve-bandwidth>current-reserve-bandwidth
                    </current-reserve-bandwidth>
    <admin-groups>...</admin-groups>
    <bandwidth-priority>bandwidth-priority</bandwidth-priority>
    <local-ifindex>local-ifindex</local-ifindex>
    <remote-ifindex>remote-ifindex</remote-ifindex>
    <address>address</address>
    <neighbor-prefix>neighbor-prefix</neighbor-prefix>
    <address-prefix>address-prefix</address-prefix>
    <prefix-err-message/>
    <te-metric>te-metric</te-metric>
    <dste-bc-header/>
    <dste-bc-model>dste-bc-model</dste-bc-model>
    <dste-bc-count>dste-bc-count</dste-bc-count>
    <dste-bc-bw>dste-bc-bw</dste-bc-bw>
  </isis-reachability-subtlv>
</reachability-tlv | isis-tlv>
```

Description No documentation is available yet.

Contents <address>—No documentation is available yet.

<address-prefix>—No documentation is available yet.

<admin-groups>—No documentation is available yet.

<bandwidth-priority>—No documentation is available yet.

<current-bandwidth-header>—No documentation is available yet.

<current-reserve-bandwidth>—No documentation is available yet.

<dste-bc-bw>—DiffServ TE bandwidth constraint BW.

<dste-bc-count>—DiffServ TE bandwidth constraint count.

<dste-bc-header>—No documentation is available yet.

<dste-bc-model>—DiffServ TE bandwidth constraint model.

<isis-subtlv-type>—No documentation is available yet.

<local-ifindex>—Local interface index.

<max-bandwidth>—No documentation is available yet.

<max-reserve-bandwidth>—No documentation is available yet.

<neighbor-prefix>—No documentation is available yet.

<prefix-err-message>—No documentation is available yet.

<remote-ifindex>—Remote interface index.

<subtlv-length>—No documentation is available yet.

<te-metric>—No documentation is available yet.

<isis-replication-adjacency>

Usage

```
<isis-replication-adjacency-information>
  <isis-replication-adjacency>
    <interface-name>interface-name</interface-name>
    <system-name>system-name</system-name>
    <level>level</level>
    <adjacency-state>adjacency-state</adjacency-state>
    <snpa>snpa</snpa>
    <instance-name>instance-name</instance-name>
    <interface-index>interface-index</interface-index>
    <reference-count>reference-count</reference-count>
    <transition-count>transition-count</transition-count>
    <last-transition-time>last-transition-time</last-transition-time>
    <adjacency-event>adjacency-event</adjacency-event>
  </isis-replication-adjacency>
</isis-replication-adjacency-information>
```

Description No documentation is available yet.

Contents <adjacency-event>—Event which triggered the transition.

<adjacency-state>—State of the adjacency.

<instance-name>—No documentation is available yet.

<interface-index>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<last-transition-time>—No documentation is available yet.

<level>—No documentation is available yet.

<reference-count>—No documentation is available yet.

<snpa>—No documentation is available yet.

<system-name>—Hostname for a system.

<transition-count>—No documentation is available yet.

<isis-replication-adjacency-information>

Usage

```
<rpc-reply>
  <isis-replication-adjacency-information>
    <isis-replication-adjacency>...</isis-replication-adjacency>
  </isis-replication-adjacency-information>
</rpc-reply>
```

Description Information about the IS-IS adjacency replication.

Contents <isis-replication-adjacency>—No documentation is available yet.

<isis-replication-database>

Usage

```
<isis-replication-database-information>
  <isis-replication-database>
    <instance-name>instance-name</instance-name>
    <level>level</level>
    <isis-replication-database-entry>...</isis-replication-database-entry>
    <isis-replication-database-entry-count>isis-replication-database-entry-count
                </isis-replication-database-entry-count>
  </isis-replication-database>
</isis-replication-database-information>
```

Description No documentation is available yet.

Contents <instance-name>—No documentation is available yet.

<isis-replication-database-entry>—No documentation is available yet.

<isis-replication-database-entry-count>—No documentation is available yet.

<level>—No documentation is available yet.

<isis-replication-database-entry>

Usage

```
<isis-replication-database>
  <isis-replication-database-entry>
    <lsp-id>lsp-id</lsp-id>
    <sequence-number>sequence-number</sequence-number>
    <checksum>checksum</checksum>
    <remaining-lifetime>remaining-lifetime</remaining-lifetime>
    <replication-entry-in-use>replication-entry-in-use</replication-entry-in-use>
  </isis-replication-database-entry>
</isis-replication-database>
```

Description No documentation is available yet.

Contents <checksum>—No documentation is available yet.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<remaining-lifetime>—No documentation is available yet.

<replication-entry-in-use>—No documentation is available yet.

<sequence-number>—History event number.

<isis-replication-database-information>

Usage

```
<rpc-reply>
  <isis-replication-database-information>
    <isis-replication-database>...</isis-replication-database>
  </isis-replication-database-information>
</rpc-reply>
```

Description Information about the IS-IS link-state database replication.

Contents <isis-replication-database>—No documentation is available yet.

<isis-replication-interface>

Usage

```
<isis-replication-interface-information>
  <isis-replication-interface>
    <interface-name>interface-name</interface-name>
    <instance-name>instance-name</instance-name>
    <circuit-id>circuit-id</circuit-id>
    <dr-id-one>dr-id-one</dr-id-one>
    <dr-id-two>dr-id-two</dr-id-two>
    <isis-interface-state-one>isis-interface-state-one</isis-interface-state-one>
    <isis-interface-state-two>isis-interface-state-two</isis-interface-state-two>
    <replication-entry-in-use>replication-entry-in-use</replication-entry-in-use>
  </isis-replication-interface>
</isis-replication-interface-information>
```

Description Information about the IS-IS interface replication.

Contents <circuit-id>—No documentation is available yet.

<dr-id-one>—No documentation is available yet.

<dr-id-two>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<isis-interface-state-one>—No documentation is available yet.

<isis-interface-state-two>—No documentation is available yet.

<replication-entry-in-use>—No documentation is available yet.

<isis-replication-interface-information>

Usage

```
<rpc-reply>
  <isis-replication-interface-information>
    <isis-replication-interface>...</isis-replication-interface>
  </isis-replication-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-replication-interface>—Information about the IS-IS interface replication.

<isis-replication-statistics>

Usage
```
<isis-replication-statistics-information>
  <isis-replication-statistics>
    <isis-replication-type>isis-replication-type</isis-replication-type>
    <add-messages>add-messages</add-messages>
    <change-messages>change-messages</change-messages>
    <delete-messages>delete-messages</delete-messages>
  </isis-replication-statistics>
</isis-replication-statistics-information>
```

Description Statistics from an IS-IS replication.

Contents <add-messages>—Count of replication add operations.

<change-messages>—Count of replication change operations.

<delete-messages>—Count of replication delete operations.

<isis-replication-type>—Type of replication.

<isis-replication-statistics-information>

Usage
```
<rpc-reply>
  <isis-replication-statistics-information>
    <isis-replication-statistics>...</isis-replication-statistics>
  </isis-replication-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-replication-statistics>—Statistics from an IS-IS replication.

<isis-replication-system-id>

Usage
```
<isis-replication-system-id-information>
  <isis-replication-system-id>
    <instance-name>instance-name</instance-name>
    <system-id>system-id</system-id>
    <replication-entry-in-use>replication-entry-in-use</replication-entry-in-use>
  </isis-replication-system-id>
</isis-replication-system-id-information>
```

Description Information about the IS-IS system ID replication.

Contents <instance-name>—No documentation is available yet.

<replication-entry-in-use>—No documentation is available yet.

<system-id>—Six-octet ISO system ID for a system.

<isis-replication-system-id-information>

Usage

```
<rpc-reply>
  <isis-replication-system-id-information>
    <isis-replication-system-id>...</isis-replication-system-id>
  </isis-replication-system-id-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-replication-system-id>—Information about the IS-IS system ID replication.

<isis-restart>

Usage

```
<isis-overview>
  <isis-restart>
    <isis-restart-enabled>isis-restart-enabled</isis-restart-enabled>
    <isis-restart-duration>isis-restart-duration</isis-restart-duration>
    <isis-restart-helper-mode-enabled>isis-restart-helper-mode-enabled
                    </isis-restart-helper-mode-enabled>
  </isis-restart>
</isis-overview>
```

Description IS-IS restart parameters.

Contents <isis-restart-duration>—Duration of IS-IS restart.

<isis-restart-enabled>—IS-IS restart mode.

<isis-restart-helper-mode-enabled>—IS-IS helper mode.

<isis-route>

Usage

```
<isis-routing-table>
  <isis-route>
    <address-prefix>address-prefix</address-prefix>
    <level>level</level>
    <route-version>route-version</route-version>
    <metric>metric</metric>
    <metric-type>metric-type</metric-type>
    <interface-name>interface-name</interface-name>
    <isis-next-hop-type>isis-next-hop-type</isis-next-hop-type>
    <isis-next-hop>isis-next-hop</isis-next-hop>
    <snpa>snpa</snpa>
  </isis-route>
</isis-routing-table>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<isis-next-hop>—No documentation is available yet.

<isis-next-hop-type>—No documentation is available yet.

<level>—No documentation is available yet.

<metric>—No documentation is available yet.

<metric-type>—No documentation is available yet.

<route-version>—No documentation is available yet.

<snpa>—No documentation is available yet.

<isis-route-information>

Usage

```
<rpc-reply>
  <isis-route-information>
    <isis-routing-table>...</isis-routing-table>
  </isis-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-routing-table>—No documentation is available yet.

<isis-routing>

Usage

```
<isis-overview>
  <isis-routing>
    <isis-routing-ipv4/>
    <isis-routing-ipv6/>
    <isis-routing-clns/>
  </isis-routing>
</isis-overview>
```

Description List of routed IS-IS address families.

Contents <isis-routing-clns>—Routing CLNS prefixes is enabled.

<isis-routing-ipv4>—Routing IPv4 prefixes is enabled.

<isis-routing-ipv6>—Routing IPv6 prefixes is enabled.

<isis-routing-table>

Usage

```
<isis-route-information>
  <isis-routing-table>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <level-one-version>level-one-version</level-one-version>
    <level-two-version>level-two-version</level-two-version>
    <isis-route>...</isis-route>
  </isis-routing-table>
</isis-route-information>
```

Description No documentation is available yet.

Contents <isis-route>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<level-one-version>—No documentation is available yet.

<level-two-version>—No documentation is available yet.

<isis-spf>

Usage

```
<isis-spf-information>
  <isis-spf>
    <isis-spf-results-header>...</isis-spf-results-header>
    <isis-spf-result>...</isis-spf-result>
    <node-count>node-count</node-count>
    <isis-spf-log-header>...</isis-spf-log-header>
    <isis-spf-log>...</isis-spf-log>
    <isis-backup-spf-result>...</isis-backup-spf-result>
  </isis-spf>
</isis-spf-information>
```

Description No documentation is available yet.

Contents <isis-backup-spf-result>—No documentation is available yet.

<isis-spf-log>—No documentation is available yet.

<isis-spf-log-header>—No documentation is available yet.

<isis-spf-result>—No documentation is available yet.

<isis-spf-results-header>—No documentation is available yet.

<node-count>—No documentation is available yet.

<isis-spf-information>

Usage

```
<isis-overview>
  <isis-spf-information>
    <isis-spf-delay>isis-spf-delay</isis-spf-delay>
    <isis-spf-holddown>isis-spf-holddown</isis-spf-holddown>
    <isis-spf-rapid-runs>isis-spf-rapid-runs</isis-spf-rapid-runs>
    <isis-spf>...</isis-spf>
  </isis-spf-information>
</isis-overview>
```

Description SPF options.

Contents <isis-spf>—No documentation is available yet.

<isis-spf-delay>—Delay before performing SPF calculations.

<isis-spf-holddown>—Throttling delay between consecutive SPF calculations.

<isis-spf-rapid-runs>—Number of rapid SPF calculations before SPF holddown.

<isis-spf-log>

Usage

```
<isis-spf>
  <isis-spf-log>
    <start-time>start-time</start-time>
    <elapsed-time>elapsed-time</elapsed-time>
    <spf-trigger-count>spf-trigger-count</spf-trigger-count>
    <logging-reason>logging-reason</logging-reason>
    <lsp-name>lsp-name</lsp-name>
    <system-name>system-name</system-name>
    <interface-name>interface-name</interface-name>
  </isis-spf-log>
</isis-spf>
```

Description No documentation is available yet.

Contents <elapsed-time>—Time this adjacency or session has been up or down.

<interface-name>—No documentation is available yet.

<logging-reason>—No documentation is available yet.

<lsp-name>—Tunneled into an RSVP LSP.

<spf-trigger-count>—No documentation is available yet.

<start-time>—No documentation is available yet.

<system-name>—Hostname for a system.

<isis-spf-log-header>

Usage

```
<isis-spf>
  <isis-spf-log-header>
    <level>level</level>
    <isis-topology-id>isis-topology-id</isis-topology-id>
  </isis-spf-log-header>
</isis-spf>
```

Description No documentation is available yet.

Contents <isis-topology-id>—No documentation is available yet.

<level>—No documentation is available yet.

<isis-spf-result>

Usage

```
<isis-spf>
  <isis-spf-result>
    <node-id>node-id</node-id>
    <disconnected/>
    <metric>metric</metric>
    <no-first-fragment/>
    <next-hop-element>...</next-hop-element>
    <prefix-element>...</prefix-element>
    <end-system-element>...</end-system-element>
  </isis-spf-result>
</isis-spf>
```

Description No documentation is available yet.

Contents <disconnected>—No documentation is available yet.

<end-system-element>—No documentation is available yet.

<metric>—No documentation is available yet.

<next-hop-element>—No documentation is available yet.

<no-first-fragment>—No documentation is available yet.

<node-id>—No documentation is available yet.

<prefix-element>—No documentation is available yet.

<isis-spf-results-header>

Usage

```
<isis-spf>
  <isis-spf-results-header>
    <level>level</level>
    <isis-topology-id>isis-topology-id</isis-topology-id>
  </isis-spf-results-header>
</isis-spf>
```

Description No documentation is available yet.

Contents <isis-topology-id>—No documentation is available yet.

<level>—No documentation is available yet.

<isis-statistics>

Usage

```
<isis-statistics-information>
  <isis-statistics>
    <system-name>system-name</system-name>
    <isis-pdu-statistics>...</isis-pdu-statistics>
    <totals-information>...</totals-information>
    <snp-queue-length>snp-queue-length</snp-queue-length>
    <snp-queue-drops>snp-queue-drops</snp-queue-drops>
    <lsp-queue-length>lsp-queue-length</lsp-queue-length>
    <lsp-queue-drops>lsp-queue-drops</lsp-queue-drops>
    <spf-runs>spf-runs</spf-runs>
    <fragments-rebuilt>fragments-rebuilt</fragments-rebuilt>
    <lsps-regenerated>lsps-regenerated</lsps-regenerated>
    <purges-initiated>purges-initiated</purges-initiated>
  </isis-statistics>
</isis-statistics-information>
```

Description No documentation is available yet.

Contents <fragments-rebuilt>—No documentation is available yet.

<isis-pdu-statistics>—No documentation is available yet.

<lsp-queue-drops>—No documentation is available yet.

<lsp-queue-length>—No documentation is available yet.

<lsps-regenerated>—No documentation is available yet.

<purges-initiated>—No documentation is available yet.

<snp-queue-drops>—No documentation is available yet.

<snp-queue-length>—No documentation is available yet.

<spf-runs>—No documentation is available yet.

<system-name>—Hostname for a system.

<totals-information>—No documentation is available yet.

<isis-statistics-information>

Usage

```
<rpc-reply>
  <isis-statistics-information>
    <isis-statistics>...</isis-statistics>
  </isis-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <isis-statistics>—No documentation is available yet.

<isis-tlv>

Usage

```
<isis-database-entry>
  <isis-tlv>
    <isis-tlv-overhead>...</isis-tlv-overhead>
    <area-address-tlv>...</area-address-tlv>
    <protocols-tlv>...</protocols-tlv>
    <mt-tlv>...</mt-tlv>
    <hostname-tlv>...</hostname-tlv>
    <ipaddress-tlv>...</ipaddress-tlv>
    <ipv6address-tlv>...</ipv6address-tlv>
    <router-id-tlv>...</router-id-tlv>
    <reachability-tlv>...</reachability-tlv>
    <isis-iso-prefix-tlv>...</isis-iso-prefix-tlv>
    <isis-prefix-subtlv>...</isis-prefix-subtlv>
    <ipv6-reachability-tlv>...</ipv6-reachability-tlv>
    <isis-reachability-subtlv>...</isis-reachability-subtlv>
    <authentication-tlv>...</authentication-tlv>
    <idrp-tlv>...</idrp-tlv>
    <ip-prefix-tlv>...</ip-prefix-tlv>
    <unknown-tlv>...</unknown-tlv>
    <tlv-stragglers>...</tlv-stragglers>
  </isis-tlv>
</isis-database-entry>
```

Description No documentation is available yet.

Contents

<area-address-tlv>—No documentation is available yet.

<authentication-tlv>—No documentation is available yet.

<hostname-tlv>—No documentation is available yet.

<idrp-tlv>—No documentation is available yet.

<ip-prefix-tlv>—No documentation is available yet.

<ipaddress-tlv>—No documentation is available yet.

<ipv6-reachability-tlv>—No documentation is available yet.

<ipv6address-tlv>—No documentation is available yet.

<isis-iso-prefix-tlv>—No documentation is available yet.

<isis-prefix-subtlv>—No documentation is available yet.

<isis-reachability-subtlv>—No documentation is available yet.

<isis-tlv-overhead>—No documentation is available yet.

<mt-tlv>—No documentation is available yet.

<protocols-tlv>—No documentation is available yet.

<reachability-tlv>—No documentation is available yet.

<router-id-tlv>—No documentation is available yet.

<tlv-stragglers>—No documentation is available yet.

<unknown-tlv>—No documentation is available yet.

<isis-tlv-overhead>

Usage

```
<isis-tlv>
  <isis-tlv-overhead>
    <isis-tlv-type>isis-tlv-type</isis-tlv-type>
    <tlv-length>tlv-length</tlv-length>
    <bytes-left>bytes-left</bytes-left>
  </isis-tlv-overhead>
</isis-tlv>
```

Description No documentation is available yet.

Contents <bytes-left>—No documentation is available yet.

<isis-tlv-type>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<isis-traffic-engineering>

Usage

```
<isis-overview>
  <isis-traffic-engineering>
    <isis-te-status>isis-te-status</isis-te-status>
    <isis-te-shortcuts-ipv4/>
    <isis-te-shortcuts-ipv6/>
    <isis-te-shortcuts-clns/>
    <isis-ipv4-multicast-rpf-routes/>
    <isis-ignore-lsp-metrics/>
    <isis-ted-credibility-preference/>
  </isis-traffic-engineering>
</isis-overview>
```

Description Traffic engineering.

Contents <isis-ignore-lsp-metrics>—Label-switched path metrics when doing shortcuts are ignored.

<isis-ipv4-multicast-rpf-routes>—IPv4 routes for multicast RPF checks are installed into inet.2.

<isis-te-shortcuts-clns>—CLNS Traffic engineering shortcuts are enabled.

<isis-te-shortcuts-ipv4>—IPv4 Traffic engineering shortcuts are enabled.

<isis-te-shortcuts-ipv6>—IPv6 Traffic engineering shortcuts are enabled.

<isis-te-status>—Traffic engineering status.

<isis-ted-credibility-preference>—Credibility follows protocol preference.

<join-family>

Usage

```
<pim-join-information>
  <join-family>
    <pim-instance>pim-instance</pim-instance>
    <address-family>address-family</address-family>
    <join-summary>...</join-summary>
    <join-group>...</join-group>
  </join-family>
</pim-join-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<join-group>—No documentation is available yet.

<join-summary>—No documentation is available yet.

<pim-instance>—Name of the PIM instance.

<join-group>

Usage

```
<join-family>
  <join-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <rendezvous-point-address>rendezvous-point-address</rendezvous-point-address>
    <pim-group-flags>...</pim-group-flags>
    <upstream-protocol-name>upstream-protocol-name</upstream-protocol-name>
    <upstream-interface-name>upstream-interface-name</upstream-interface-name>
    <pim-interface-state>pim-interface-state</pim-interface-state>
    <upstream-neighbor>upstream-neighbor</upstream-neighbor>
    <upstream-neighbor-rpf-origin>upstream-neighbor-rpf-origin
                </upstream-neighbor-rpf-origin>
    <dense-event>...</dense-event>
    <downstream-interface>...</downstream-interface>
    <upstream-state-flags>...</upstream-state-flags>
    <keepalive-timeout>keepalive-timeout</keepalive-timeout>
    <no-keepalive-timeout/>
    <sparse-downstream-interface>...</sparse-downstream-interface>
  </join-group>
</join-family>
```

Description No documentation is available yet.

Contents

<dense-event>—No documentation is available yet.

<downstream-interface>—No documentation is available yet.

<keepalive-timeout>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<no-keepalive-timeout>—No documentation is available yet.

<pim-group-flags>—No documentation is available yet.

<pim-interface-state>—State of PIM interface.

<rendezvous-point-address>—Address of rendezvous point.

<sparse-downstream-interface>—No documentation is available yet.

<upstream-interface-name>—Upstream interface.

<upstream-neighbor>—No documentation is available yet.

<upstream-neighbor-rpf-origin>—Reverse-path forwarding origin of upstream neighbor.

<upstream-protocol-name>—Upstream protocol.

<upstream-state-flags>—No documentation is available yet.

<join-summary>

Usage
```
<join-family>
  <join-summary>
    <multicast-route-type>multicast-route-type</multicast-route-type>
    <multicast-route-count>multicast-route-count</multicast-route-count>
  </join-summary>
</join-family>
```

Description No documentation is available yet.

Contents <multicast-route-count>—No documentation is available yet.

<multicast-route-type>—No documentation is available yet.

<juniper-routing-aspath>

Usage
```
<rpc-reply>
  <juniper-routing-aspath>
    <aspath-domain>...</aspath-domain>
    <aspath-table>...</aspath-table>
  </juniper-routing-aspath>
</rpc-reply>
```

Description Operational and configuration information for AS paths.

Contents <aspath-domain>—No documentation is available yet.

<aspath-table>—No documentation is available yet.

<l2circuit-connection-information>

Usage
```
<rpc-reply>
  <l2circuit-connection-information>
    <l2circuit-neighbor>...</l2circuit-neighbor>
  </l2circuit-connection-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2circuit-neighbor>—No documentation is available yet.

<l2circuit-neighbor>

Usage

```
<l2circuit-connection-information>
  <l2circuit-neighbor>
    <neighbor-address>neighbor-address</neighbor-address>
    <neighbor-display-error>neighbor-display-error</neighbor-display-error>
    <lsw-interface-name>lsw-interface-name</lsw-interface-name>
    <connection>...</connection>
    <connections-summary>...</connections-summary>
  </l2circuit-neighbor>
</l2circuit-connection-information>
```

Description No documentation is available yet.

Contents <connection>—No documentation is available yet.

<connections-summary>—No documentation is available yet.

<lsw-interface-name>—No documentation is available yet.

<neighbor-address>—IP address of this neighbor.

<neighbor-display-error>—No documentation is available yet.

<l2ckt-label-repository>

Usage

```
<l2ckt-label-repository-information>
  <l2ckt-label-repository>
    <neighbor-id>neighbor-id</neighbor-id>
    <vc-id>vc-id</vc-id>
    <vc-label>vc-label</vc-label>
    <label-repository-state>label-repository-state</label-repository-state>
  </l2ckt-label-repository>
</l2ckt-label-repository-information>
```

Description Information about one or more Layer-2 circuit label replication entries.

Contents <label-repository-state>—State of label replication entry.

<neighbor-id>—No documentation is available yet.

<vc-id>—No documentation is available yet.

<vc-label>—VC label.

<l2ckt-label-repository-information>

Usage
```
<rpc-reply>
  <l2ckt-label-repository-information>
    <l2ckt-label-repository>...</l2ckt-label-repository>
  </l2ckt-label-repository-information>
</rpc-reply>
```

Description Information about the Layer-2 circuit label replication.

Contents <l2ckt-label-repository>—Information about one or more Layer-2 circuit label replication entries.

<l2iw-domain>

Usage
```
<l2iw-peering-information>
  <l2iw-domain>
    <l2iw-domain-name>l2iw-domain-name</l2iw-domain-name>
  </l2iw-domain>
</l2iw-peering-information>
```

Description No documentation is available yet.

Contents <l2iw-domain-name>—Name of peering domain.

<l2iw-peering-information>

Usage
```
<rpc-reply>
  <l2iw-peering-information>
    <l2iw-domain>...</l2iw-domain>
  </l2iw-peering-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <l2iw-domain>—No documentation is available yet.

<l2vpn-connection-information>

Usage
```
<rpc-reply>
  <l2vpn-connection-information>
    <instance>...</instance>
  </l2vpn-connection-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <instance>—No documentation is available yet.

<l2vpn-label-repository-information>

Usage

```
<rpc-reply>
  <l2vpn-label-repository-information>
    <l2vpn-route-distinguisher-information>...
                    </l2vpn-route-distinguisher-information>
  </l2vpn-label-repository-information>
</rpc-reply>
```

Description Information about Layer 2 VPN network label replication.

Contents <l2vpn-route-distinguisher-information>—Information about a route distinguisher replication entry.

<l2vpn-labels>

Usage

```
<l2vpn-labels-information>
  <l2vpn-labels>
    <instance-id>instance-id</instance-id>
    <site-id>site-id</site-id>
    <label-block-offset>label-block-offset</label-block-offset>
    <label-block-base>label-block-base</label-block-base>
    <label-block-range>label-block-range</label-block-range>
  </l2vpn-labels>
</l2vpn-labels-information>
```

Description Information about a Layer 2 VPN allocated label block entry.

Contents <instance-id>—Routing instance identifier.

<label-block-base>—No documentation is available yet.

<label-block-offset>—No documentation is available yet.

<label-block-range>—No documentation is available yet.

<site-id>—Site identifier.

<l2vpn-labels-information>

Usage

```
<rpc-reply>
  <l2vpn-labels-information>
    <l2vpn-labels>...</l2vpn-labels>
  </l2vpn-labels-information>
</rpc-reply>
```

Description Information about the l2vpn allocated label blocks.

Contents <l2vpn-labels>—Information about a Layer 2 VPN allocated label block entry.

<l2vpn-nlri-advertisement>

Usage

```
<l2vpn-route-distinguisher-information | vpls-bgp-route-distinguisher-information>
  <l2vpn-nlri-advertisement>
    <site-id>site-id</site-id>
    <label-block-offset>label-block-offset</label-block-offset>
    <label-block-base>label-block-base</label-block-base>
    <label-block-range>label-block-range</label-block-range>
    <label-repository-state>label-repository-state</label-repository-state>
  </l2vpn-nlri-advertisement>
</l2vpn-route-distinguisher-information | vpls-bgp-route-distinguisher-information>
```

Description Information about a Layer 2 VPN network layer reachability information replication entry.

Contents

<label-block-base>—No documentation is available yet.

<label-block-offset>—No documentation is available yet.

<label-block-range>—No documentation is available yet.

<label-repository-state>—State of label replication entry.

<site-id>—Site identifier.

<l2vpn-route-distinguisher-information>

Usage

```
<l2vpn-label-repository-information>
  <l2vpn-route-distinguisher-information>
    <route-distinguisher>route-distinguisher</route-distinguisher>
    <instance-id>instance-id</instance-id>
    <l2vpn-nlri-advertisement>...</l2vpn-nlri-advertisement>
  </l2vpn-route-distinguisher-information>
</l2vpn-label-repository-information>
```

Description Information about a route distinguisher replication entry.

Contents

<instance-id>—Routing instance identifier.

<l2vpn-nlri-advertisement>—Information about a Layer 2 VPN network layer reachability information replication entry.

<route-distinguisher>—No documentation is available yet.

<label-block>

Usage

```
<reference-site>
  <label-block>
    <label-block-base>label-block-base</label-block-base>
    <label-block-offset>label-block-offset</label-block-offset>
    <label-block-range>label-block-range</label-block-range>
    <label-block-preference>label-block-preference</label-block-preference>
    <label-block-status-vector>label-block-status-vector
                    </label-block-status-vector>
  </label-block>
</reference-site>
```

Description No documentation is available yet.

Contents <label-block-base>—No documentation is available yet.

<label-block-offset>—No documentation is available yet.

<label-block-preference>—No documentation is available yet.

<label-block-range>—No documentation is available yet.

<label-block-status-vector>—No documentation is available yet.

<layer2-connection>

Usage

```
<mpls-lsp-path>
  <layer2-connection>
    <neighbor-address>neighbor-address</neighbor-address>
    <interface-name>interface-name</interface-name>
    <vc-id>vc-id</vc-id>
    <connection-bandwidth>...</connection-bandwidth>
  </layer2-connection>
</mpls-lsp-path>
```

Description Layer 2 connection using the LSP path.

Contents <connection-bandwidth>—Bandwidth of a layer 2 connection.

<interface-name>—No documentation is available yet.

<neighbor-address>—IP address of this neighbor.

<vc-id>—No documentation is available yet.

<layer2-tspec>

Usage

```
<rsvp-session>
  <layer2-tspec>
    <switching-granularity>switching-granularity</switching-granularity>
    <mtu>mtu</mtu>
    <atm-vp-bundle-size>atm-vp-bundle-size</atm-vp-bundle-size>
    <atm-cell-bundle-size>atm-cell-bundle-size</atm-cell-bundle-size>
  </layer2-tspec>
</rsvp-session>
```

Description Layer 2 TSpec.

Contents <atm-cell-bundle-size>—Maximum cell bundle size.

<atm-vp-bundle-size>—VP bundle size.

<mtu>—MTU along an interface.

<switching-granularity>—Layer 2 switching granularity.

<ldp-binding>

Usage

```
<ldp-database>
  <ldp-binding>
    <ldp-label>ldp-label</ldp-label>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-binding-filtered/>
    <ldp-binding-stale/>
    <ldp-binding-mtu>ldp-binding-mtu</ldp-binding-mtu>
    <ldp-binding-cell-bundle-size>ldp-binding-cell-bundle-size
                </ldp-binding-cell-bundle-size>
    <ldp-binding-requested-vlan-id>ldp-binding-requested-vlan-id
                </ldp-binding-requested-vlan-id>
    <ldp-binding-bitrate>ldp-binding-bitrate</ldp-binding-bitrate>
    <ldp-binding-payload-size>ldp-binding-payload-size</ldp-binding-payload-size>
    <ldp-binding-state>ldp-binding-state</ldp-binding-state>
    <ldp-binding-age>ldp-binding-age</ldp-binding-age>
    <ldp-binding-delete-scheduled>ldp-binding-delete-scheduled
                </ldp-binding-delete-scheduled>
    <ldp-binding-queued/>
    <ldp-binding-not-yet-sent/>
    <ldp-binding-standby>...</ldp-binding-standby>
    <ldp-l2circuit-vccv-cc-type>...</ldp-l2circuit-vccv-cc-type>
    <ldp-l2circuit-vccv-cv-type>...</ldp-l2circuit-vccv-cv-type>
  </ldp-binding>
</ldp-database>
```

Description No documentation is available yet.

Contents <ldp-binding-age>—No documentation is available yet.

<ldp-binding-bitrate>—No documentation is available yet.

<ldp-binding-cell-bundle-size>—No documentation is available yet.

<ldp-binding-delete-scheduled>—No documentation is available yet.

<ldp-binding-filtered>—No documentation is available yet.

<ldp-binding-mtu>—No documentation is available yet.

<ldp-binding-not-yet-sent>—No documentation is available yet.

<ldp-binding-payload-size>—No documentation is available yet.

<ldp-binding-queued>—No documentation is available yet.

<ldp-binding-requested-vlan-id>—No documentation is available yet.

<ldp-binding-stale>—No documentation is available yet.

<ldp-binding-standby>—Standby binding information.

<ldp-binding-state>—No documentation is available yet.

<ldp-l2circuit-vccv-cc-type>—VCCV connectivity channel types supported by peer.

<ldp-l2circuit-vccv-cv-type>—VCCV connectivity verification types supported by peer.

<ldp-label>—No documentation is available yet.

<ldp-prefix>—No documentation is available yet.

<ldp-binding-standby>

Usage
```
<ldp-binding>
  <ldp-binding-standby>
    <ldp-binding-standby-map-count>ldp-binding-standby-map-count
                </ldp-binding-standby-map-count>
    <ldp-binding-standby-rel-count>ldp-binding-standby-rel-count
                </ldp-binding-standby-rel-count>
  </ldp-binding-standby>
</ldp-binding>
```

Description Standby binding information.

Contents <ldp-binding-standby-map-count>—Count of outstanding map messages received.

<ldp-binding-standby-rel-count>—Count of outstanding release messages received.

<ldp-database>

Usage
```
<ldp-database-information>
  <ldp-database>
    <ldp-database-type>ldp-database-type</ldp-database-type>
    <ldp-session-id>ldp-session-id</ldp-session-id>
    <ldp-binding>...</ldp-binding>
  </ldp-database>
</ldp-database-information>
```

Description No documentation is available yet.

Contents <ldp-binding>—No documentation is available yet.

<ldp-database-type>—No documentation is available yet.

<ldp-session-id>—No documentation is available yet.

<ldp-database-information>

Usage
```
<rpc-reply>
  <ldp-database-information>
    <ldp-database>...</ldp-database>
  </ldp-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-database>—No documentation is available yet.

<ldp-event-statistics>

Usage
```
<ldp-statistics>
  <ldp-event-statistics>
    <ldp-event-type>ldp-event-type</ldp-event-type>
    <ldp-event-count>ldp-event-count</ldp-event-count>
    <ldp-event-count-5seconds>ldp-event-count-5seconds</ldp-event-count-5seconds>
  </ldp-event-statistics>
</ldp-statistics>
```

Description No documentation is available yet.

Contents <ldp-event-count>—No documentation is available yet.

<ldp-event-count-5seconds>—No documentation is available yet.

<ldp-event-type>—No documentation is available yet.

<ldp-fec-filter>

Usage
```
<ldp-fec-filters-information>
  <ldp-fec-filter>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-ingress-filter>ldp-ingress-filter</ldp-ingress-filter>
    <ldp-ingress-filterid>ldp-ingress-filterid</ldp-ingress-filterid>
    <ldp-transit-filter>ldp-transit-filter</ldp-transit-filter>
    <ldp-transit-filterid>ldp-transit-filterid</ldp-transit-filterid>
  </ldp-fec-filter>
</ldp-fec-filters-information>
```

Description No documentation is available yet.

Contents <ldp-ingress-filter>—Ingress firewall filter name.

<ldp-ingress-filterid>—Ingress firewall filter index.

<ldp-prefix>—No documentation is available yet.

<ldp-transit-filter>—Transit firewall filter name.

<ldp-transit-filterid>—Transit firewall filter index.

<ldp-fec-filters-information>

Usage
```
<rpc-reply>
  <ldp-fec-filters-information>
    <ldp-fec-filter>...</ldp-fec-filter>
  </ldp-fec-filters-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-fec-filter>—No documentation is available yet.

<ldp-interface>

Usage

```
<ldp-interface-information>
  <ldp-interface>
    <interface-name>interface-name</interface-name>
    <ldp-label-space-id>ldp-label-space-id</ldp-label-space-id>
    <ldp-neighbor-count>ldp-neighbor-count</ldp-neighbor-count>
    <ldp-next-hello>ldp-next-hello</ldp-next-hello>
    <ldp-hello-interval>ldp-hello-interval</ldp-hello-interval>
    <ldp-local-hello-interval>ldp-local-hello-interval</ldp-local-hello-interval>
    <ldp-holdtime>ldp-holdtime</ldp-holdtime>
    <ldp-transport-address>ldp-transport-address</ldp-transport-address>
    <ldp-interface-index>ldp-interface-index</ldp-interface-index>
    <ldp-block-time>ldp-block-time</ldp-block-time>
    <ldp-hello-sent>ldp-hello-sent</ldp-hello-sent>
    <ldp-hello-received>ldp-hello-received</ldp-hello-received>
  </ldp-interface>
</ldp-interface-information>
```

Description No documentation is available yet.

Contents

<interface-name>—No documentation is available yet.

<ldp-block-time>—No documentation is available yet.

<ldp-hello-interval>—No documentation is available yet.

<ldp-hello-received>—Number of hellos received on this interface.

<ldp-hello-sent>—Number of hellos sent on this interface.

<ldp-holdtime>—No documentation is available yet.

<ldp-interface-index>—No documentation is available yet.

<ldp-label-space-id>—No documentation is available yet.

<ldp-local-hello-interval>—The locally configured hello interval.

<ldp-neighbor-count>—No documentation is available yet.

<ldp-next-hello>—No documentation is available yet.

<ldp-transport-address>—No documentation is available yet.

<ldp-interface-information>

Usage

```
<rpc-reply>
  <ldp-interface-information>
    <ldp-interface>...</ldp-interface>
  </ldp-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-interface>—No documentation is available yet.

<ldp-l2circuit-vccv-cc-type>

Usage

```
<ldp-binding>
  <ldp-l2circuit-vccv-cc-type>
    <mpls-type-control-word>mpls-type-control-word</mpls-type-control-word>
    <mpls-type-router-alert>mpls-type-router-alert</mpls-type-router-alert>
    <mpls-type-pw-label>mpls-type-pw-label</mpls-type-pw-label>
  </ldp-l2circuit-vccv-cc-type>
</ldp-binding>
```

Description VCCV connectivity channel types supported by peer.

Contents <mpls-type-control-word>—Indicates that pwe3 control word type is supported.

<mpls-type-pw-label>—Indicates that pseudowire label with ttl = 1 is supported.

<mpls-type-router-alert>—Indicates that mpls router alert label is supported.

<ldp-l2circuit-vccv-cv-type>

Usage

```
<ldp-binding>
  <ldp-l2circuit-vccv-cv-type>
    <mpls-type-icmp-ping>mpls-type-icmp-ping</mpls-type-icmp-ping>
    <mpls-type-lsp-ping>mpls-type-lsp-ping</mpls-type-lsp-ping>
  </ldp-l2circuit-vccv-cv-type>
</ldp-binding>
```

Description VCCV connectivity verification types supported by peer.

Contents <mpls-type-icmp-ping>—Indicates that ICMP ping is supported.

<mpls-type-lsp-ping>—Indicates that LSP ping is supported.

<ldp-message-statistics>

Usage

```
<ldp-statistics>
  <ldp-message-statistics>
    <ldp-message-type>ldp-message-type</ldp-message-type>
    <ldp-messages-sent>ldp-messages-sent</ldp-messages-sent>
    <ldp-messages-received>ldp-messages-received</ldp-messages-received>
    <ldp-messages-sent-5seconds>ldp-messages-sent-5seconds
                </ldp-messages-sent-5seconds>
    <ldp-messages-received-5seconds>ldp-messages-received-5seconds
                </ldp-messages-received-5seconds>
  </ldp-message-statistics>
</ldp-statistics>
```

Description No documentation is available yet.

Contents <ldp-message-type>—No documentation is available yet.

<ldp-messages-received>—No documentation is available yet.

<ldp-messages-received-5seconds>—No documentation is available yet.

<ldp-messages-sent>—No documentation is available yet.

<ldp-messages-sent-5seconds>—No documentation is available yet.

<ldp-neighbor>

Usage

```
<ldp-neighbor-information>
  <ldp-neighbor>
    <ldp-neighbor-address>ldp-neighbor-address</ldp-neighbor-address>
    <interface-name>interface-name</interface-name>
    <ldp-label-space-id>ldp-label-space-id</ldp-label-space-id>
    <ldp-remaining-time>ldp-remaining-time</ldp-remaining-time>
    <ldp-transport-address>ldp-transport-address</ldp-transport-address>
    <ldp-config-sequence>ldp-config-sequence</ldp-config-sequence>
    <ldp-up-time>ldp-up-time</ldp-up-time>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
    <ldp-holdtime>ldp-holdtime</ldp-holdtime>
    <ldp-proposed-local-holdtime>ldp-proposed-local-holdtime
                </ldp-proposed-local-holdtime>
    <ldp-proposed-peer-holdtime>ldp-proposed-peer-holdtime
                </ldp-proposed-peer-holdtime>
    <ldp-hello-interval>ldp-hello-interval</ldp-hello-interval>
    <ldp-neighbor-hello-flags>...</ldp-neighbor-hello-flags>
    <ldp-neighbor-types>...</ldp-neighbor-types>
  </ldp-neighbor>
</ldp-neighbor-information>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<ldp-config-sequence>—No documentation is available yet.

<ldp-hello-interval>—No documentation is available yet.

<ldp-holdtime>—No documentation is available yet.

<ldp-label-space-id>—No documentation is available yet.

<ldp-neighbor-address>—No documentation is available yet.

<ldp-neighbor-hello-flags>—LDP neighbor hello flags.

<ldp-neighbor-types>—LDP neighbor types.

<ldp-proposed-local-holdtime>—The local value of the hold time.

<ldp-proposed-peer-holdtime>—The peer's proposed value of the hold time.

<ldp-reference-count>—No documentation is available yet.

<ldp-remaining-time>—No documentation is available yet.

<ldp-transport-address>—No documentation is available yet.

<ldp-up-time>—No documentation is available yet.

<ldp-neighbor-hello-flags>

Usage
```
<ldp-neighbor>
  <ldp-neighbor-hello-flags>
    <ldp-neighbor-hello-flag>ldp-neighbor-hello-flag</ldp-neighbor-hello-flag>
  </ldp-neighbor-hello-flags>
</ldp-neighbor>
```

Description LDP neighbor hello flags.

Contents <ldp-neighbor-hello-flag>—LDP neighbor hello flag.

<ldp-neighbor-information>

Usage
```
<rpc-reply>
  <ldp-neighbor-information>
    <ldp-neighbor>...</ldp-neighbor>
  </ldp-neighbor-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-neighbor>—No documentation is available yet.

<ldp-neighbor-replication>

Usage

```
<ldp-neighbor-replication-information>
  <ldp-neighbor-replication>
    <ldp-instance-id>ldp-instance-id</ldp-instance-id>
    <ldp-neighbor-address>ldp-neighbor-address</ldp-neighbor-address>
    <interface-name>interface-name</interface-name>
    <ldp-neighbor-replication-state>ldp-neighbor-replication-state
                </ldp-neighbor-replication-state>
    <ldp-interface-index>ldp-interface-index</ldp-interface-index>
    <ldp-neighbor-replication-age>ldp-neighbor-replication-age
                </ldp-neighbor-replication-age>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
  </ldp-neighbor-replication>
</ldp-neighbor-replication-information>
```

Description Neighbor replication entry.

Contents <interface-name>—No documentation is available yet.

<ldp-instance-id>—Routing instance identifier.

<ldp-interface-index>—No documentation is available yet.

<ldp-neighbor-address>—No documentation is available yet.

<ldp-neighbor-replication-age>—Age.

<ldp-neighbor-replication-state>—State of the neighbor replication entry.

<ldp-reference-count>—No documentation is available yet.

<ldp-neighbor-replication-information>

Usage

```
<rpc-reply>
  <ldp-neighbor-replication-information>
    <ldp-neighbor-replication>...</ldp-neighbor-replication>
  </ldp-neighbor-replication-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-neighbor-replication>—Neighbor replication entry.

<ldp-neighbor-types>

Usage
```
<ldp-neighbor | ldp-session>
  <ldp-neighbor-types>
    <ldp-neighbor-type>ldp-neighbor-type</ldp-neighbor-type>
  </ldp-neighbor-types>
</ldp-neighbor | ldp-session>
```

Description LDP neighbor types.

Contents <ldp-neighbor-type>—LDP neighbor type.

<ldp-nexthop>

Usage
```
<ldp-route>
  <ldp-nexthop>
    <interface-name>interface-name</interface-name>
    <lsp-name>lsp-name</lsp-name>
    <lsp-no-ldp-tunneling/>
    <interface-address>interface-address</interface-address>
    <ldp-session-id>ldp-session-id</ldp-session-id>
  </ldp-nexthop>
</ldp-route>
```

Description No documentation is available yet.

Contents <interface-address>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<ldp-session-id>—No documentation is available yet.

<lsp-name>—Tunneled into an RSVP LSP.

<lsp-no-ldp-tunneling>—LDP tunneling is not configured on LSP.

<ldp-oam-bfd-session>

Usage

```
<ldp-route>
  <ldp-oam-bfd-session>
    <ldp-oam-destination-address>ldp-oam-destination-address
                </ldp-oam-destination-address>
    <ldp-oam-bfd-session-state>ldp-oam-bfd-session-state
                </ldp-oam-bfd-session-state>
    <ldp-oam-lsp-ping-state>ldp-oam-lsp-ping-state</ldp-oam-lsp-ping-state>
    <ldp-oam-nexthop-address>ldp-oam-nexthop-address</ldp-oam-nexthop-address>
    <ldp-oam-interface-name>ldp-oam-interface-name</ldp-oam-interface-name>
    <ldp-oam-nexthop-lsp>ldp-oam-nexthop-lsp</ldp-oam-nexthop-lsp>
  </ldp-oam-bfd-session>
</ldp-route>
```

Description LDP OAM state information.

Contents <ldp-oam-bfd-session-state>—No documentation is available yet.

<ldp-oam-destination-address>—No documentation is available yet.

<ldp-oam-interface-name>—No documentation is available yet.

<ldp-oam-lsp-ping-state>—No documentation is available yet.

<ldp-oam-nexthop-address>—No documentation is available yet.

<ldp-oam-nexthop-lsp>—No documentation is available yet.

<ldp-oam-information>

Usage

```
<rpc-reply>
  <ldp-oam-information>
    <ldp-oam-status>...</ldp-oam-status>
  </ldp-oam-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-oam-status>—No documentation is available yet.

<ldp-oam-path>

Usage

```
<ldp-oam-status>
  <ldp-oam-path>
    <ldp-oam-destination-address>ldp-oam-destination-address
                </ldp-oam-destination-address>
    <ldp-oam-nexthop-address>ldp-oam-nexthop-address</ldp-oam-nexthop-address>
    <ldp-oam-interface-name>ldp-oam-interface-name</ldp-oam-interface-name>
    <ldp-oam-nexthop-lsp>ldp-oam-nexthop-lsp</ldp-oam-nexthop-lsp>
    <ldp-oam-bfd-session-state>ldp-oam-bfd-session-state
                </ldp-oam-bfd-session-state>
    <ldp-oam-lsp-ping-state>ldp-oam-lsp-ping-state</ldp-oam-lsp-ping-state>
    <ldp-oam-path-address>ldp-oam-path-address</ldp-oam-path-address>
  </ldp-oam-path>
</ldp-oam-status>
```

Description No documentation is available yet.

Contents <ldp-oam-bfd-session-state>—No documentation is available yet.

<ldp-oam-destination-address>—No documentation is available yet.

<ldp-oam-interface-name>—No documentation is available yet.

<ldp-oam-lsp-ping-state>—No documentation is available yet.

<ldp-oam-nexthop-address>—No documentation is available yet.

<ldp-oam-nexthop-lsp>—No documentation is available yet.

<ldp-oam-path-address>—No documentation is available yet.

<ldp-oam-status>

Usage

```
<ldp-oam-information>
  <ldp-oam-status>
    <ldp-oam-prefix>ldp-oam-prefix</ldp-oam-prefix>
    <ldp-oam-time>ldp-oam-time</ldp-oam-time>
    <ldp-oam-path>...</ldp-oam-path>
  </ldp-oam-status>
</ldp-oam-information>
```

Description No documentation is available yet.

Contents <ldp-oam-path>—No documentation is available yet.

<ldp-oam-prefix>—No documentation is available yet.

<ldp-oam-time>—No documentation is available yet.

<ldp-path>

Usage

```
<ldp-path-information>
  <ldp-path>
    <ldp-outlib-session>ldp-outlib-session</ldp-outlib-session>
    <ldp-outlib-label>ldp-outlib-label</ldp-outlib-label>
    <ldp-ingress-label/>
    <ldp-inlib-session>ldp-inlib-session</ldp-inlib-session>
    <ldp-inlib-label>ldp-inlib-label</ldp-inlib-label>
    <ldp-egress-label/>
    <ldp-path-route>...</ldp-path-route>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
    <ldp-route-transit/>
    <ldp-global-label>ldp-global-label</ldp-global-label>
    <ldp-merged-next-hop/>
  </ldp-path>
</ldp-path-information>
```

Description No documentation is available yet.

Contents <ldp-egress-label>—No documentation is available yet.

<ldp-global-label>—No documentation is available yet.

<ldp-ingress-label>—No documentation is available yet.

<ldp-inlib-label>—No documentation is available yet.

<ldp-inlib-session>—No documentation is available yet.

<ldp-merged-next-hop>—Both active and non-active next hop will be merged together.

<ldp-outlib-label>—No documentation is available yet.

<ldp-outlib-session>—No documentation is available yet.

<ldp-path-route>—No documentation is available yet.

<ldp-reference-count>—No documentation is available yet.

<ldp-route-transit>—No documentation is available yet.

<ldp-path-information>

Usage

```
<rpc-reply>
  <ldp-path-information>
    <ldp-path>...</ldp-path>
  </ldp-path-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-path>—No documentation is available yet.

<ldp-path-replication>

Usage

```
<ldp-path-replication-information>
  <ldp-path-replication>
    <ldp-instance-id>ldp-instance-id</ldp-instance-id>
    <ldp-label>ldp-label</ldp-label>
    <ldp-path-replication-ingress-selfid>ldp-path-replication-ingress-selfid
            </ldp-path-replication-ingress-selfid>
    <ldp-path-replication-transit-selfid>ldp-path-replication-transit-selfid
            </ldp-path-replication-transit-selfid>
    <ldp-path-replication-state>ldp-path-replication-state
            </ldp-path-replication-state>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
  </ldp-path-replication>
</ldp-path-replication-information>
```

Description Path replication entry.

Contents <ldp-instance-id>—Routing instance identifier.

<ldp-label>—No documentation is available yet.

<ldp-path-replication-ingress-selfid>—Ingress Self ID.

<ldp-path-replication-state>—Path replication entry state.

<ldp-path-replication-transit-selfid>—Transit Self ID.

<ldp-reference-count>—No documentation is available yet.

<ldp-path-replication-information>

Usage

```
<rpc-reply>
  <ldp-path-replication-information>
    <ldp-path-replication>...</ldp-path-replication>
  </ldp-path-replication-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-path-replication>—Path replication entry.

<ldp-path-route>

Usage

```
<ldp-path>
  <ldp-path-route>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-route-ingress/>
  </ldp-path-route>
</ldp-path>
```

Description No documentation is available yet.

Contents <ldp-prefix>—No documentation is available yet.

<ldp-route-ingress>—No documentation is available yet.

<ldp-route>

Usage

```
<ldp-route-information>
  <ldp-route>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-nexthop>...</ldp-nexthop>
    <ldp-label>ldp-label</ldp-label>
    <ldp-no-label/>
    <ldp-topology-entry>ldp-topology-entry</ldp-topology-entry>
    <ldp-ingress-route-status>ldp-ingress-route-status</ldp-ingress-route-status>
    <ldp-ingress-route-last-modified-time>ldp-ingress-route-last-modified-time
                </ldp-ingress-route-last-modified-time>
    <ldp-merged-next-hop/>
    <ldp-oam-bfd-session>...</ldp-oam-bfd-session>
  </ldp-route>
</ldp-route-information>
```

Description No documentation is available yet.

Contents <ldp-ingress-route-last-modified-time>—Time since the ingress route was modified.

<ldp-ingress-route-status>—Status about whether the ingress route is present or not.

<ldp-label>—No documentation is available yet.

<ldp-merged-next-hop>—Both active and non-active next hop will be merged together.

<ldp-nexthop>—No documentation is available yet.

<ldp-no-label>—No documentation is available yet.

<ldp-oam-bfd-session>—LDP OAM state information.

<ldp-prefix>—No documentation is available yet.

<ldp-topology-entry>—No documentation is available yet.

<ldp-route-information>

Usage

```
<rpc-reply>
  <ldp-route-information>
    <ldp-route>...</ldp-route>
  </ldp-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-route>—No documentation is available yet.

<ldp-session>

Usage <ldp-session-information>

<ldp-session>

<ldp-neighbor-address>*ldp-neighbor-address*</ldp-neighbor-address>
<ldp-session-state>*ldp-session-state*</ldp-session-state>
<ldp-connection-state>*ldp-connection-state*</ldp-connection-state>
<ldp-remaining-time>*ldp-remaining-time*</ldp-remaining-time>
<ldp-session-id>*ldp-session-id*</ldp-session-id>
<ldp-retry-time>*ldp-retry-time*</ldp-retry-time>
<ldp-keepalive-time>*ldp-keepalive-time*</ldp-keepalive-time>
<ldp-session-role>*ldp-session-role*</ldp-session-role>
<ldp-session-max-pdu>*ldp-session-max-pdu*</ldp-session-max-pdu>
<ldp-holdtime>*ldp-holdtime*</ldp-holdtime>
<ldp-neighbor-count>*ldp-neighbor-count*</ldp-neighbor-count>
<ldp-neighbor-types>...</ldp-neighbor-types>
<ldp-keepalive-interval>*ldp-keepalive-interval*</ldp-keepalive-interval>
<ldp-retry-interval>*ldp-retry-interval*</ldp-retry-interval>
<ldp-local-address>*ldp-local-address*</ldp-local-address>
<ldp-remote-address>*ldp-remote-address*</ldp-remote-address>
<ldp-graceful-restart-state>*ldp-graceful-restart-state*
</ldp-graceful-restart-state>
<ldp-local-reconnect-time>*ldp-local-reconnect-time*</ldp-local-reconnect-time>
<ldp-remote-reconnect-time>*ldp-remote-reconnect-time*
</ldp-remote-reconnect-time>
<ldp-restart-complete-time>*ldp-restart-complete-time*
</ldp-restart-complete-time>
<ldp-helper-mode-state>*ldp-helper-mode-state*</ldp-helper-mode-state>
<ldp-helper-mode-time>*ldp-helper-mode-time*</ldp-helper-mode-time>
<ldp-local-helper-mode>*ldp-local-helper-mode*</ldp-local-helper-mode>
<ldp-remote-helper-mode>*ldp-remote-helper-mode*</ldp-remote-helper-mode>
<ldp-graceful-restart-local>*ldp-graceful-restart-local*
</ldp-graceful-restart-local>
<ldp-graceful-restart-remote>*ldp-graceful-restart-remote*
</ldp-graceful-restart-remote>
<ldp-local-maximum-reconnect>*ldp-local-maximum-reconnect*
</ldp-local-maximum-reconnect>
<ldp-local-maximum-recovery>*ldp-local-maximum-recovery*
</ldp-local-maximum-recovery>
<ldp-up-time>*ldp-up-time*</ldp-up-time>
<ldp-last-down-time>*ldp-last-down-time*</ldp-last-down-time>
<ldp-down-reason>*ldp-down-reason*</ldp-down-reason>
<ldp-session-flap-count>*ldp-session-flap-count*</ldp-session-flap-count>
<ldp-session-protection>...</ldp-session-protection>
<ldp-session-nsr-state>*ldp-session-nsr-state*</ldp-session-nsr-state>
<ldp-session-address>...</ldp-session-address>
<ldp-session-deleted/>
<ldp-session-connect-pending/>
<ldp-session-close-pending/>
<ldp-session-queue-depth>*ldp-session-queue-depth*</ldp-session-queue-depth>
<ldp-session-read-pending/>
<ldp-session-write-pending/>
<ldp-session-receive-buffer-bytes>*ldp-session-receive-buffer-bytes*
</ldp-session-receive-buffer-bytes>

```
        <ldp-session-transmit-buffer-bytes>ldp-session-transmit-buffer-bytes
                        </ldp-session-transmit-buffer-bytes>
        <ldp-session-no-connection/>
        <ldp-session-authentication>ldp-session-authentication
                        </ldp-session-authentication>
        <ldp-session-statistics>...</ldp-session-statistics>
      </ldp-session>
    </ldp-session-information>
```

Description No documentation is available yet.

Contents <ldp-connection-state>—No documentation is available yet.

<ldp-down-reason>—No documentation is available yet.

<ldp-graceful-restart-local>—No documentation is available yet.

<ldp-graceful-restart-remote>—No documentation is available yet.

<ldp-graceful-restart-state>—No documentation is available yet.

<ldp-helper-mode-state>—Helping neighbor during graceful restart.

<ldp-helper-mode-time>—Time left for session re-establishment or label recovery.

<ldp-holdtime>—No documentation is available yet.

<ldp-keepalive-interval>—No documentation is available yet.

<ldp-keepalive-time>—No documentation is available yet.

<ldp-last-down-time>—No documentation is available yet.

<ldp-local-address>—No documentation is available yet.

<ldp-local-helper-mode>—No documentation is available yet.

<ldp-local-maximum-reconnect>—No documentation is available yet.

<ldp-local-maximum-recovery>—No documentation is available yet.

<ldp-local-reconnect-time>—No documentation is available yet.

<ldp-neighbor-address>—No documentation is available yet.

<ldp-neighbor-count>—No documentation is available yet.

<ldp-neighbor-types>—LDP neighbor types.

<ldp-remaining-time>—No documentation is available yet.

<ldp-remote-address>—No documentation is available yet.

<ldp-remote-helper-mode>—No documentation is available yet.

<ldp-remote-reconnect-time>—No documentation is available yet.

<ldp-restart-complete-time>—No documentation is available yet.

<ldp-retry-interval>—No documentation is available yet.

<ldp-retry-time>—No documentation is available yet.

<ldp-session-address>—No documentation is available yet.

<ldp-session-authentication>—No documentation is available yet.

<ldp-session-close-pending>—No documentation is available yet.

<ldp-session-connect-pending>—No documentation is available yet.

<ldp-session-deleted>—No documentation is available yet.

<ldp-session-flap-count>—Number of times the LDP session has gone down and then come back up.

<ldp-session-id>—No documentation is available yet.

<ldp-session-max-pdu>—No documentation is available yet.

<ldp-session-no-connection>—No documentation is available yet.

<ldp-session-nsr-state>—Synchronization state of nonstop routing for the session.

<ldp-session-protection>—LDP session protection information.

<ldp-session-queue-depth>—No documentation is available yet.

<ldp-session-read-pending>—No documentation is available yet.

<ldp-session-receive-buffer-bytes>—No documentation is available yet.

<ldp-session-role>—No documentation is available yet.

<ldp-session-state>—No documentation is available yet.

<ldp-session-statistics>—No documentation is available yet.

<ldp-session-transmit-buffer-bytes>—No documentation is available yet.

<ldp-session-write-pending>—No documentation is available yet.

<ldp-up-time>—No documentation is available yet.

<ldp-session-address>

Usage
```
<ldp-session>
  <ldp-session-address>
    <interface-address>interface-address</interface-address>
    <interface-name>interface-name</interface-name>
    <ldp-session-address-stale/>
  </ldp-session-address>
</ldp-session>
```

Description No documentation is available yet.

Contents <interface-address>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<ldp-session-address-stale>—No documentation is available yet.

<ldp-session-information>

Usage
```
<rpc-reply>
  <ldp-session-information>
    <ldp-session>...</ldp-session>
  </ldp-session-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-session>—No documentation is available yet.

<ldp-session-protection>

Usage
```
<ldp-session>
  <ldp-session-protection>
    <ldp-session-protection-state>ldp-session-protection-state
                </ldp-session-protection-state>
    <ldp-session-protection-remaining-time>ldp-session-protection-remaining-time
                </ldp-session-protection-remaining-time>
  </ldp-session-protection>
</ldp-session>
```

Description LDP session protection information.

Contents <ldp-session-protection-remaining-time>—Time after which session protection will cease to be active.

<ldp-session-protection-state>—LDP session protection state.

<ldp-session-replication>

Usage

```
<ldp-session-replication-information>
  <ldp-session-replication>
    <ldp-instance-id>ldp-instance-id</ldp-instance-id>
    <ldp-neighbor-address>ldp-neighbor-address</ldp-neighbor-address>
    <ldp-session-replication-state>ldp-session-replication-state
                </ldp-session-replication-state>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
    <ldp-session-replication-age>ldp-session-replication-age
                </ldp-session-replication-age>
  </ldp-session-replication>
</ldp-session-replication-information>
```

Description Session replication entry.

Contents <ldp-instance-id>—Routing instance identifier.

<ldp-neighbor-address>—No documentation is available yet.

<ldp-reference-count>—No documentation is available yet.

<ldp-session-replication-age>—Age.

<ldp-session-replication-state>—Session replication entry state.

<ldp-session-replication-information>

Usage

```
<rpc-reply>
  <ldp-session-replication-information>
    <ldp-session-replication>...</ldp-session-replication>
  </ldp-session-replication-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-session-replication>—Session replication entry.

<ldp-session-statistics>

Usage

```
<ldp-session>
  <ldp-session-statistics>
    <ldp-message-type>ldp-message-type</ldp-message-type>
    <ldp-messages-sent>ldp-messages-sent</ldp-messages-sent>
    <ldp-messages-received>ldp-messages-received</ldp-messages-received>
    <ldp-messages-sent-5seconds>ldp-messages-sent-5seconds
                </ldp-messages-sent-5seconds>
    <ldp-messages-received-5seconds>ldp-messages-received-5seconds
                </ldp-messages-received-5seconds>
  </ldp-session-statistics>
</ldp-session>
```

Description No documentation is available yet.

Contents <ldp-message-type>—No documentation is available yet.

<ldp-messages-received>—No documentation is available yet.

<ldp-messages-received-5seconds>—No documentation is available yet.

<ldp-messages-sent>—No documentation is available yet.

<ldp-messages-sent-5seconds>—No documentation is available yet.

<ldp-standby-path>

Usage

```
<ldp-standby-path-information>
  <ldp-standby-path>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
    <ldp-label>ldp-label</ldp-label>
    <ldp-standby-path-prefix>...</ldp-standby-path-prefix>
  </ldp-standby-path>
</ldp-standby-path-information>
```

Description LDP standby path entry.

Contents <ldp-label>—No documentation is available yet.

<ldp-reference-count>—No documentation is available yet.

<ldp-standby-path-prefix>—No documentation is available yet.

<ldp-standby-path-information>

Usage
```
<rpc-reply>
  <ldp-standby-path-information>
    <ldp-standby-path>...</ldp-standby-path>
  </ldp-standby-path-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-standby-path>—LDP standby path entry.

<ldp-standby-path-prefix>

Usage
```
<ldp-standby-path>
  <ldp-standby-path-prefix>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
  </ldp-standby-path-prefix>
</ldp-standby-path>
```

Description No documentation is available yet.

Contents <ldp-prefix>—No documentation is available yet.

<ldp-reference-count>—No documentation is available yet.

<ldp-standby-path-reference>

Usage
```
<ldp-standby-route>
  <ldp-standby-path-reference>
    <ldp-reference-count>ldp-reference-count</ldp-reference-count>
    <ldp-label>ldp-label</ldp-label>
  </ldp-standby-path-reference>
</ldp-standby-route>
```

Description Route to label association entry.

Contents <ldp-label>—No documentation is available yet.

<ldp-reference-count>—No documentation is available yet.

<ldp-standby-route>

Usage
```
<ldp-standby-route-information>
  <ldp-standby-route>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-standby-route-route/>
    <ldp-standby-path-reference>...</ldp-standby-path-reference>
  </ldp-standby-route>
</ldp-standby-route-information>
```

Description LDP standby route entry.

Contents <ldp-prefix>—No documentation is available yet.

<ldp-standby-path-reference>—Route to label association entry.

<ldp-standby-route-route>—Route present in LDP shadow routing table.

<ldp-standby-route-information>

Usage
```
<rpc-reply>
  <ldp-standby-route-information>
    <ldp-standby-route>...</ldp-standby-route>
  </ldp-standby-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-standby-route>—LDP standby route entry.

<ldp-statistics>

Usage
```
<ldp-statistics-information>
  <ldp-statistics>
    <ldp-message-statistics>...</ldp-message-statistics>
    <ldp-event-statistics>...</ldp-event-statistics>
  </ldp-statistics>
</ldp-statistics-information>
```

Description No documentation is available yet.

Contents <ldp-event-statistics>—No documentation is available yet.

<ldp-message-statistics>—No documentation is available yet.

<ldp-statistics-information>

Usage

```
<rpc-reply>
  <ldp-statistics-information>
    <ldp-statistics>...</ldp-statistics>
  </ldp-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-statistics>—No documentation is available yet.

<ldp-traffic-statistics>

Usage

```
<ldp-traffic-statistics-information>
  <ldp-traffic-statistics>
    <ldp-prefix>ldp-prefix</ldp-prefix>
    <ldp-traffic-type>ldp-traffic-type</ldp-traffic-type>
    <ldp-traffic-error>ldp-traffic-error</ldp-traffic-error>
    <ldp-traffic-statistics-packet-count>ldp-traffic-statistics-packet-count
                </ldp-traffic-statistics-packet-count>
    <ldp-traffic-statistics-byte-count>ldp-traffic-statistics-byte-count
                </ldp-traffic-statistics-byte-count>
    <ldp-traffic-multiple-fec>ldp-traffic-multiple-fec</ldp-traffic-multiple-fec>
  </ldp-traffic-statistics>
</ldp-traffic-statistics-information>
```

Description No documentation is available yet.

Contents <ldp-prefix>—No documentation is available yet.

<ldp-traffic-error>—Error encountered when querying the statistics.

<ldp-traffic-multiple-fec>—Multiple FECs sharing the same label.

<ldp-traffic-statistics-byte-count>—Number of bytes switched for this FEC.

<ldp-traffic-statistics-packet-count>—Number of packets switched for this FEC.

<ldp-traffic-type>—Type of traffic: ingress or transit.

<ldp-traffic-statistics-error>

Usage

```
<ldp-traffic-statistics-information>
  <ldp-traffic-statistics-error>
    <ldp-traffic-error>ldp-traffic-error</ldp-traffic-error>
  </ldp-traffic-statistics-error>
</ldp-traffic-statistics-information>
```

Description No documentation is available yet.

Contents <ldp-traffic-error>—Error encountered when querying the statistics.

<ldp-traffic-statistics-information>

Usage

```
<rpc-reply>
  <ldp-traffic-statistics-information>
    <ldp-traffic-statistics>...</ldp-traffic-statistics>
    <ldp-traffic-statistics-error>...</ldp-traffic-statistics-error>
  </ldp-traffic-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ldp-traffic-statistics>—No documentation is available yet.

<ldp-traffic-statistics-error>—No documentation is available yet.

<ldp-vpls-reference-site>

Usage

```
<instance>
  <ldp-vpls-reference-site>
    <vpls-signaling-protocol-identifier>vpls-signaling-protocol-identifier
                  </vpls-signaling-protocol-identifier>
    <local-site-id>local-site-id</local-site-id>
    <remote-site-id>remote-site-id</remote-site-id>
    <vpls-id>vpls-id</vpls-id>
    <num-local-interfaces>num-local-interfaces</num-local-interfaces>
    <num-local-interfaces-up>num-local-interfaces-up</num-local-interfaces-up>
    <irb-present>irb-present</irb-present>
    <mesh-group-count>mesh-group-count</mesh-group-count>
    <mesh-group-up-count>mesh-group-up-count</mesh-group-up-count>
    <mesh-group-interfaces>...</mesh-group-interfaces>
    <interface>...</interface>
    <connection>...</connection>
    <mesh-group-connection>...</mesh-group-connection>
    <connections-summary>...</connections-summary>
  </ldp-vpls-reference-site>
</instance>
```

Description Information about LDP-VPLS.

Contents

<connection>—No documentation is available yet.

<connections-summary>—No documentation is available yet.

<interface>—No documentation is available yet.

<irb-present>—No documentation is available yet.

<local-site-id>—No documentation is available yet.

<mesh-group-connection>—Information about all vc-connections of a specific mesh-group.

<mesh-group-count>—No documentation is available yet.

<mesh-group-interfaces>—Information about all interfaces associated with a mesh-group.

<mesh-group-up-count>—No documentation is available yet.

<num-local-interfaces>—No documentation is available yet.

<num-local-interfaces-up>—No documentation is available yet.

<remote-site-id>—No documentation is available yet.

<vpls-id>—VPLS instance identifier.

<vpls-signaling-protocol-identifier>—No documentation is available yet.

<lm-control-channel-info>

Usage
```
<lm-peer-control-channels>
  <lm-control-channel-info>
    <lm-control-channel>lm-control-channel</lm-control-channel>
    <lm-control-channel-state>lm-control-channel-state</lm-control-channel-state>
  </lm-control-channel-info>
</lm-peer-control-channels>
```

Description Link management control channel information.

Contents <lm-control-channel>—Peer control channel name.

<lm-control-channel-state>—Peer control channel state.

<lm-information>

Usage
```
<rpc-reply>
  <lm-information>
    <lm-peer-root-information>...</lm-peer-root-information>
    <lm-te-link-root-information>...</lm-te-link-root-information>
    <lm-resource-root-information>...</lm-resource-root-information>
  </lm-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lm-peer-root-information>—No documentation is available yet.

<lm-resource-root-information>—No documentation is available yet.

<lm-te-link-root-information>—No documentation is available yet.

<lm-input-statistics>

Usage

```
<lm-peer-statistics>
  <lm-input-statistics>
    <lm-received-packets>...</lm-received-packets>
    <lm-received-bad-packets>...</lm-received-bad-packets>
    <lm-received-misordered-packets>...</lm-received-misordered-packets>
    <lm-small-packets>lm-small-packets</lm-small-packets>
    <lm-bad-version>lm-bad-version</lm-bad-version>
    <lm-no-peer>lm-no-peer</lm-no-peer>
    <lm-no-cc>lm-no-cc</lm-no-cc>
    <lm-wrong-state>lm-wrong-state</lm-wrong-state>
    <lm-stale-ack>lm-stale-ack</lm-stale-ack>
    <lm-stale-nack>lm-stale-nack</lm-stale-nack>
  </lm-input-statistics>
</lm-peer-statistics>
```

Description Input statistics.

Contents <lm-bad-version>—Number of packets with unsupported protocol version.

<lm-no-cc>—Number of messages received for unknown control channel.

<lm-no-peer>—Number of messages received for unknown peer.

<lm-received-bad-packets>—Number of bad packets received.

<lm-received-misordered-packets>—Number of out-of-order packets received.

<lm-received-packets>—Number of packets received.

<lm-small-packets>—Number of packets too small to process.

<lm-stale-ack>—Number of acknowledgments received for unknown messages.

<lm-stale-nack>—Number of negative acknowledgments received for unknown messages.

<lm-wrong-state>—Number of messages received for control channel in wrong state.

<lm-lmp-control-channel-flags>

Usage

```
<lm-peer-lmp-control-channel-information>
  <lm-lmp-control-channel-flags>
    <cc-restarting/>
  </lm-lmp-control-channel-flags>
</lm-peer-lmp-control-channel-information>
```

Description Peer control channel flags.

Contents <cc-restarting>—No documentation is available yet.

<lm-output-statistics>

Usage
```
<lm-peer-statistics>
  <lm-output-statistics>
    <lm-sent-packets>...</lm-sent-packets>
    <lm-retransmit-packets>...</lm-retransmit-packets>
    <lm-tossed-packets>...</lm-tossed-packets>
  </lm-output-statistics>
</lm-peer-statistics>
```

Description Output statistics.

Contents <lm-retransmit-packets>—Number of packets retransmitted.

<lm-sent-packets>—Number of packets sent.

<lm-tossed-packets>—Number of messages which failed retransmission.

<lm-peer-control-channels>

Usage
```
<lm-peer-information>
  <lm-peer-control-channels>
    <lm-control-channel-info>...</lm-control-channel-info>
  </lm-peer-control-channels>
</lm-peer-information>
```

Description Link management control channels.

Contents <lm-control-channel-info>—Link management control channel information.

<lm-peer-information>

Usage

```
<lm-peer-root-information>
  <lm-peer-information>
    <lm-source>lm-source</lm-source>
    <lm-sys-id>lm-sys-id</lm-sys-id>
    <lm-peer-name>lm-peer-name</lm-peer-name>
    <lm-state>lm-state</lm-state>
    <lm-peer-control-address>lm-peer-control-address</lm-peer-control-address>
    <lm-peer-hello-interval>lm-peer-hello-interval</lm-peer-hello-interval>
    <lm-peer-hello-dead-interval>lm-peer-hello-dead-interval
                </lm-peer-hello-dead-interval>
    <lm-peer-received-message-id>lm-peer-received-message-id
                </lm-peer-received-message-id>
    <lm-peer-sent-message-id>lm-peer-sent-message-id</lm-peer-sent-message-id>
    <lm-peer-control-channels>...</lm-peer-control-channels>
    <lm-peer-lmp-control-channels>...</lm-peer-lmp-control-channels>
    <lm-peer-te-links>...</lm-peer-te-links>
  </lm-peer-information>
</lm-peer-root-information>
```

Description No documentation is available yet.

Contents <lm-peer-control-address>—Peer control address.

<lm-peer-control-channels>—Link management control channels.

<lm-peer-hello-dead-interval>—LMP hello dead-interval.

<lm-peer-hello-interval>—LMP hello interval.

<lm-peer-lmp-control-channels>—Link management control channels.

<lm-peer-name>—Name of object.

<lm-peer-received-message-id>—LMP last per-peer received message ID.

<lm-peer-sent-message-id>—LMP last per-peer sent message ID.

<lm-peer-te-links>—Link management peer TE links.

<lm-source>—Source of information.

<lm-state>—State of object.

<lm-sys-id>—System identifier of object.

<lm-peer-lmp-control-channel-information>

Usage

```
<lm-peer-lmp-control-channels>
  <lm-peer-lmp-control-channel-information>
    <lm-lmp-control-channel-local-id>lm-lmp-control-channel-local-id
                </lm-lmp-control-channel-local-id>
    <lm-lmp-control-channel-remote-id>lm-lmp-control-channel-remote-id
                </lm-lmp-control-channel-remote-id>
    <lm-lmp-control-channel-state>lm-lmp-control-channel-state
                </lm-lmp-control-channel-state>
    <lm-lmp-control-channel-flags>...</lm-lmp-control-channel-flags>

<lm-lmp-control-channel-received-message-id>lm-lmp-control-channel-received-message-i
d
                </lm-lmp-control-channel-received-message-id>
    <lm-lmp-control-channel-sent-message-id>lm-lmp-control-channel-sent-message-id
                </lm-lmp-control-channel-sent-message-id>
    <lm-lmp-control-channel-rcv-seq-num>lm-lmp-control-channel-rcv-seq-num
                </lm-lmp-control-channel-rcv-seq-num>
    <lm-lmp-control-channel-tx-seq-num>lm-lmp-control-channel-tx-seq-num
                </lm-lmp-control-channel-tx-seq-num>
  </lm-peer-lmp-control-channel-information>
</lm-peer-lmp-control-channels>
```

Description Link management control channel information.

Contents <lm-lmp-control-channel-flags>—Peer control channel flags.

<lm-lmp-control-channel-local-id>—Peer control channel local ID.

<lm-lmp-control-channel-rcv-seq-num>—LMP receive sequence number.

<lm-lmp-control-channel-received-message-id>—LMP last per-control-channel received message ID.

<lm-lmp-control-channel-remote-id>—Peer control channel remote ID.

<lm-lmp-control-channel-sent-message-id>—LMP last per-control-channel sent message ID.

<lm-lmp-control-channel-state>—Peer control channel state.

<lm-lmp-control-channel-tx-seq-num>—LMP transmit sequence number.

<lm-peer-lmp-control-channels>

Usage
```
<lm-peer-information>
  <lm-peer-lmp-control-channels>
    <lm-peer-lmp-control-channel-information>...
                    </lm-peer-lmp-control-channel-information>
  </lm-peer-lmp-control-channels>
</lm-peer-information>
```

Description Link management control channels.

Contents <lm-peer-lmp-control-channel-information>—Link management control channel information.

<lm-peer-root-information>

Usage
```
<lm-information>
  <lm-peer-root-information>
    <lm-peer-information>...</lm-peer-information>
  </lm-peer-root-information>
</lm-information>
```

Description No documentation is available yet.

Contents <lm-peer-information>—No documentation is available yet.

<lm-peer-statistics>

Usage
```
<lm-statistics-information>
  <lm-peer-statistics>
    <lm-peer-name>lm-peer-name</lm-peer-name>
    <lm-input-statistics>...</lm-input-statistics>
    <lm-output-statistics>...</lm-output-statistics>
  </lm-peer-statistics>
</lm-statistics-information>
```

Description No documentation is available yet.

Contents <lm-input-statistics>—Input statistics.

<lm-output-statistics>—Output statistics.

<lm-peer-name>—Name of object.

<lm-peer-te-link-information>

Usage
```
<lm-peer-te-links>
  <lm-peer-te-link-information>
    <lm-peer-te-link>lm-peer-te-link</lm-peer-te-link>
  </lm-peer-te-link-information>
</lm-peer-te-links>
```

Description Link management peer TE link information.

Contents <lm-peer-te-link>—TE link name contained in peer.

<lm-peer-te-links>

Usage
```
<lm-peer-information>
  <lm-peer-te-links>
    <lm-peer-te-link-information>...</lm-peer-te-link-information>
  </lm-peer-te-links>
</lm-peer-information>
```

Description Link management peer TE links.

Contents <lm-peer-te-link-information>—Link management peer TE link information.

<lm-received-bad-packets>

Usage
```
<lm-input-statistics>
  <lm-received-bad-packets>
    <lm-packet-type>lm-packet-type</lm-packet-type>
    <lm-packet-count>lm-packet-count</lm-packet-count>
  </lm-received-bad-packets>
</lm-input-statistics>
```

Description Number of bad packets received.

Contents <lm-packet-count>—Number of packets.

<lm-packet-type>—Type of packet.

<lm-received-misordered-packets>

Usage
```
<lm-input-statistics>
  <lm-received-misordered-packets>
    <lm-packet-type>lm-packet-type</lm-packet-type>
    <lm-packet-count>lm-packet-count</lm-packet-count>
  </lm-received-misordered-packets>
</lm-input-statistics>
```

Description Number of out-of-order packets received.

Contents <lm-packet-count>—Number of packets.

<lm-packet-type>—Type of packet.

<lm-received-packets>

Usage

```
<lm-input-statistics>
  <lm-received-packets>
    <lm-packet-type>lm-packet-type</lm-packet-type>
    <lm-packet-count>lm-packet-count</lm-packet-count>
  </lm-received-packets>
</lm-input-statistics>
```

Description Number of packets received.

Contents <lm-packet-count>—Number of packets.

<lm-packet-type>—Type of packet.

<lm-resource>

Usage

```
<lm-resource-root-information>
  <lm-resource>
    <lm-resource-name>lm-resource-name</lm-resource-name>
    <lm-resource-type>lm-resource-type</lm-resource-type>
    <lm-resource-state>lm-resource-state</lm-resource-state>
    <lm-sys-id>lm-sys-id</lm-sys-id>
    <lm-resource-max-allocations>lm-resource-max-allocations
                </lm-resource-max-allocations>
    <lm-resource-bandwidth>lm-resource-bandwidth</lm-resource-bandwidth>
    <lm-resource-traffic-params>lm-resource-traffic-params
                </lm-resource-traffic-params>
  </lm-resource>
</lm-resource-root-information>
```

Description No documentation is available yet.

Contents <lm-resource-bandwidth>—Total bandwidth of resource.

<lm-resource-max-allocations>—Maximum number of allocations.

<lm-resource-name>—Resource name.

<lm-resource-state>—No documentation is available yet.

<lm-resource-traffic-params>—Traffic parameters of resource.

<lm-resource-type>—Resource type.

<lm-sys-id>—System identifier of object.

<lm-resource-allocation-context>

Usage
```
<lm-te-link-resource>
  <lm-resource-allocation-context>
    <lm-allocated-bandwidth>lm-allocated-bandwidth</lm-allocated-bandwidth>
    <lm-allocated-lsp-name>lm-allocated-lsp-name</lm-allocated-lsp-name>
    <lm-local-label>lm-local-label</lm-local-label>
    <lm-remote-label>lm-remote-label</lm-remote-label>
  </lm-resource-allocation-context>
</lm-te-link-resource>
```

Description No documentation is available yet.

Contents <lm-allocated-bandwidth>—No documentation is available yet.

<lm-allocated-lsp-name>—No documentation is available yet.

<lm-local-label>—No documentation is available yet.

<lm-remote-label>—No documentation is available yet.

<lm-resource-root-information>

Usage
```
<lm-information>
  <lm-resource-root-information>
    <lm-source>lm-source</lm-source>
    <lm-resource>...</lm-resource>
  </lm-resource-root-information>
</lm-information>
```

Description No documentation is available yet.

Contents <lm-resource>—No documentation is available yet.

<lm-source>—Source of information.

<lm-retransmit-packets>

Usage
```
<lm-output-statistics>
  <lm-retransmit-packets>
    <lm-packet-type>lm-packet-type</lm-packet-type>
    <lm-packet-count>lm-packet-count</lm-packet-count>
  </lm-retransmit-packets>
</lm-output-statistics>
```

Description Number of packets retransmitted.

Contents <lm-packet-count>—Number of packets.

<lm-packet-type>—Type of packet.

<lm-sent-packets>

Usage

```
<lm-output-statistics>
  <lm-sent-packets>
    <lm-packet-type>lm-packet-type</lm-packet-type>
    <lm-packet-count>lm-packet-count</lm-packet-count>
  </lm-sent-packets>
</lm-output-statistics>
```

Description Number of packets sent.

Contents <lm-packet-count>—Number of packets.

<lm-packet-type>—Type of packet.

<lm-statistics-information>

Usage

```
<rpc-reply>
  <lm-statistics-information>
    <lm-peer-statistics>...</lm-peer-statistics>
  </lm-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <lm-peer-statistics>—No documentation is available yet.

<lm-te-link-information>

Usage

```
<lm-te-link-root-information>
  <lm-te-link-information>
    <lm-te-link-name>lm-te-link-name</lm-te-link-name>
    <lm-local-id>lm-local-id</lm-local-id>
    <lm-remote-id>lm-remote-id</lm-remote-id>
    <lm-state>lm-state</lm-state>
    <lm-te-link-flags>lm-te-link-flags</lm-te-link-flags>
    <lm-te-link-local-flags>...</lm-te-link-local-flags>
    <lm-local-address>lm-local-address</lm-local-address>
    <lm-remote-address>lm-remote-address</lm-remote-address>
    <lm-encoding>lm-encoding</lm-encoding>
    <lm-switching>lm-switching</lm-switching>
    <lm-min-bandwidth>lm-min-bandwidth</lm-min-bandwidth>
    <lm-max-bandwidth>lm-max-bandwidth</lm-max-bandwidth>
    <lm-total-bandwidth>lm-total-bandwidth</lm-total-bandwidth>
    <lm-avail-bandwidth>lm-avail-bandwidth</lm-avail-bandwidth>
    <lm-te-link-resources>...</lm-te-link-resources>
  </lm-te-link-information>
</lm-te-link-root-information>
```

Description No documentation is available yet.

Contents

<lm-avail-bandwidth>—Unallocated bandwidth on this TE link.

<lm-encoding>—TE-Link encoding type.

<lm-local-address>—Local address of object.

<lm-local-id>—Local identifier of object.

<lm-max-bandwidth>—Maximum reservable bandwidth per allocation.

<lm-min-bandwidth>—Minimum reservable bandwidth per allocation.

<lm-remote-address>—Remote address of object.

<lm-remote-id>—Remote identifier of object.

<lm-state>—State of object.

<lm-switching>—TE-Link switching capability.

<lm-te-link-flags>—Flags for object.

<lm-te-link-local-flags>—No documentation is available yet.

<lm-te-link-name>—Name of object.

<lm-te-link-resources>—No documentation is available yet.

<lm-total-bandwidth>—Total bandwidth available on this TE link.

<lm-te-link-local-flags>

Usage

```
<lm-te-link-information>
  <lm-te-link-local-flags>
    <lm-te-link-nack-sent-flag/>
  </lm-te-link-local-flags>
</lm-te-link-information>
```

Description No documentation is available yet.

Contents <lm-te-link-nack-sent-flag>—No documentation is available yet.

<lm-te-link-resource>

Usage

```
<lm-te-link-resources>
  <lm-te-link-resource>
    <lm-resource-name>lm-resource-name</lm-resource-name>
    <lm-resource-type>lm-resource-type</lm-resource-type>
    <lm-sys-id>lm-sys-id</lm-sys-id>
    <lm-resource-state>lm-resource-state</lm-resource-state>
    <lm-resource-flags>lm-resource-flags</lm-resource-flags>
    <lm-resource-local-id>lm-resource-local-id</lm-resource-local-id>
    <lm-resource-remote-id>lm-resource-remote-id</lm-resource-remote-id>
    <lm-resource-local-addr>lm-resource-local-addr</lm-resource-local-addr>
    <lm-resource-remote-addr>lm-resource-remote-addr</lm-resource-remote-addr>
    <lm-resource-bandwidth>lm-resource-bandwidth</lm-resource-bandwidth>
    <lm-resource-avail-bandwidth>lm-resource-avail-bandwidth
                </lm-resource-avail-bandwidth>
    <lm-resource-traffic-params>lm-resource-traffic-params
                </lm-resource-traffic-params>
    <lm-resource-max-allocations>lm-resource-max-allocations
                </lm-resource-max-allocations>
    <lm-resource-num-allocations>lm-resource-num-allocations
                </lm-resource-num-allocations>
    <lm-resource-in-use>lm-resource-in-use</lm-resource-in-use>
    <lm-resource-lsp-name>lm-resource-lsp-name</lm-resource-lsp-name>
    <lm-resource-allocation-context>...</lm-resource-allocation-context>
  </lm-te-link-resource>
</lm-te-link-resources>
```

Description No documentation is available yet.

Contents

<lm-resource-allocation-context>—No documentation is available yet.

<lm-resource-avail-bandwidth>—Unallocated bandwidth on resource.

<lm-resource-bandwidth>—Total bandwidth of resource.

<lm-resource-flags>—Resource flags.

<lm-resource-in-use>—Resource allocation status.

<lm-resource-local-addr>—Resource local address.

<lm-resource-local-id>—Resource local identifier.

<lm-resource-lsp-name>—Name of LSP using resource.

<lm-resource-max-allocations>—Maximum number of allocations.

<lm-resource-name>—Resource name.

<lm-resource-num-allocations>—Current number of allocations.

<lm-resource-remote-addr>—Resource remote address.

<lm-resource-remote-id>—Resource remote identifier.

<lm-resource-state>—No documentation is available yet.

<lm-resource-traffic-params>—Traffic parameters of resource.

<lm-resource-type>—Resource type.

<lm-sys-id>—System identifier of object.

<lm-te-link-resources>

Usage
```
<lm-te-link-information>
  <lm-te-link-resources>
    <lm-te-link-resource>...</lm-te-link-resource>
  </lm-te-link-resources>
</lm-te-link-information>
```

Description No documentation is available yet.

Contents <lm-te-link-resource>—No documentation is available yet.

<lm-te-link-root-information>

Usage
```
<lm-information>
  <lm-te-link-root-information>
    <lm-te-link-information>...</lm-te-link-information>
  </lm-te-link-root-information>
</lm-information>
```

Description No documentation is available yet.

Contents <lm-te-link-information>—No documentation is available yet.

<lm-tossed-packets>

Usage
```
<lm-output-statistics>
  <lm-tossed-packets>
    <lm-packet-type>lm-packet-type</lm-packet-type>
    <lm-packet-count>lm-packet-count</lm-packet-count>
  </lm-tossed-packets>
</lm-output-statistics>
```

Description Number of messages which failed retransmission.

Contents <lm-packet-count>—Number of packets.

<lm-packet-type>—Type of packet.

<local-asn>

Usage

```
<aspath-domain>
  <local-asn>
    <asn>asn</asn>
    <as-loops>as-loops</as-loops>
  </local-asn>
</aspath-domain>
```

Description No documentation is available yet.

Contents <as-loops>—No documentation is available yet.

<asn>—Autonomous system number.

<local-interface>

Usage

```
<connection>
  <local-interface>
    <interface-name>interface-name</interface-name>
    <interface-status>interface-status</interface-status>
    <interface-encapsulation>interface-encapsulation</interface-encapsulation>
    <working-status>working-status</working-status>
    <profile-name>profile-name</profile-name>
    <interface-description>interface-description</interface-description>
  </local-interface>
</connection>
```

Description No documentation is available yet.

Contents <interface-description>—No documentation is available yet.

<interface-encapsulation>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<interface-status>—No documentation is available yet.

<profile-name>—No documentation is available yet.

<working-status>—No documentation is available yet.

<log-element>

Usage

```
<ospf-log-instance | ospf-log-maximum-length | ospf-log-events>
  <log-element>
    <timestamp>timestamp</timestamp>
    <ospf-log-type>ospf-log-type</ospf-log-type>
    <elapsed-time>elapsed-time</elapsed-time>
  </log-element>
</ospf-log-instance | ospf-log-maximum-length | ospf-log-events>
```

Description No documentation is available yet.

Contents <elapsed-time>—Time this adjacency or session has been up or down.

<ospf-log-type>—No documentation is available yet.

<timestamp>—Time when something occurs.

<lp-history>

Usage

```
<rsvp-session | bypass-info>
  <lp-history>
    <sequence-number>sequence-number</sequence-number>
    <time>time</time>
    <log>log</log>
    <route>route</route>
  </lp-history>
</rsvp-session | bypass-info>
```

Description Log of LSP path-related events.

Contents <log>—Supplemental information of the event.

<route>—Latest RRO contents, as reported by RSVP.

<sequence-number>—History event number.

<time>—Time of the event.

<mc-stats-interface>

Usage

```
<multicast-statistics>
  <mc-stats-interface>
    <interface-name>interface-name</interface-name>
    <protocol-name>protocol-name</protocol-name>
    <mc-mismatch-errors>mc-mismatch-errors</mc-mismatch-errors>
    <mc-mismatches>mc-mismatches</mc-mismatches>
    <mc-mismatches-no-route>mc-mismatches-no-route</mc-mismatches-no-route>
    <mc-resolves>mc-resolves</mc-resolves>
    <mc-routing-notifies>mc-routing-notifies</mc-routing-notifies>
    <mc-resolves-no-route>mc-resolves-no-route</mc-resolves-no-route>
    <mc-resolve-errors>mc-resolve-errors</mc-resolve-errors>
    <mc-resolves-filtered>mc-resolves-filtered</mc-resolves-filtered>
    <mc-routing-notifies-filtered>mc-routing-notifies-filtered
                </mc-routing-notifies-filtered>
    <mc-input-kbytes>mc-input-kbytes</mc-input-kbytes>
    <mc-input-packets>mc-input-packets</mc-input-packets>
    <mc-output-kbytes>mc-output-kbytes</mc-output-kbytes>
    <mc-output-packets>mc-output-packets</mc-output-packets>
  </mc-stats-interface>
</multicast-statistics>
```

Description No documentation is available yet.

Contents

<interface-name>—No documentation is available yet.

<mc-input-kbytes>—Number of input kilobytes.

<mc-input-packets>—Number of input packets.

<mc-mismatch-errors>—Number of interface mismatch errors.

<mc-mismatches>—Number of interface mismatches.

<mc-mismatches-no-route>—Number of interface mismatches due to no route to source.

<mc-output-kbytes>—Number of output kilobytes.

<mc-output-packets>—Number of output packets.

<mc-resolve-errors>—Number of resolve errors.

<mc-resolves>—Number of resolve requests.

<mc-resolves-filtered>—Number of resolve requests filtered by policy.

<mc-resolves-no-route>—Number of resolve requests with no route to source.

<mc-routing-notifies>—Number of routing notifications.

<mc-routing-notifies-filtered>—Number of routing notifications filtered by policy.

<protocol-name>—No documentation is available yet.

<mdt-active-tunnel>

Usage

```
<pim-mdt-information>
  <mdt-active-tunnel>
    <mdt-customer-source-address>mdt-customer-source-address
                </mdt-customer-source-address>
    <mdt-customer-group-address>mdt-customer-group-address
                </mdt-customer-group-address>
    <mdt-provider-group-address>mdt-provider-group-address
                </mdt-provider-group-address>
    <mdt-tunnel-interface-name>mdt-tunnel-interface-name
                </mdt-tunnel-interface-name>
    <mdt-forwarding-rate-kilobits>mdt-forwarding-rate-kilobits
                </mdt-forwarding-rate-kilobits>
    <mdt-forwarding-rate-kilobytes>mdt-forwarding-rate-kilobytes
                </mdt-forwarding-rate-kilobytes>
    <mdt-configured-threshold-rate>mdt-configured-threshold-rate
                </mdt-configured-threshold-rate>
    <mdt-tunnel-uptime>mdt-tunnel-uptime</mdt-tunnel-uptime>
    <mdt-default-tunnel-information>mdt-default-tunnel-information
                </mdt-default-tunnel-information>
  </mdt-active-tunnel>
</pim-mdt-information>
```

Description No documentation is available yet.

Contents <mdt-configured-threshold-rate>—No documentation is available yet.

<mdt-customer-group-address>—No documentation is available yet.

<mdt-customer-source-address>—No documentation is available yet.

<mdt-default-tunnel-information>—No documentation is available yet.

<mdt-forwarding-rate-kilobits>—No documentation is available yet.

<mdt-forwarding-rate-kilobytes>—No documentation is available yet.

<mdt-provider-group-address>—No documentation is available yet.

<mdt-tunnel-interface-name>—No documentation is available yet.

<mdt-tunnel-uptime>—No documentation is available yet.

<mesh-group-connection>

Usage

```
<reference-site | ldp-vpls-reference-site | vpls-protocol-state>
  <mesh-group-connection>
    <mesh-group-name>mesh-group-name</mesh-group-name>
    <connection>...</connection>
    <connections-summary>...</connections-summary>
  </mesh-group-connection>
</reference-site | ldp-vpls-reference-site | vpls-protocol-state>
```

Description Information about all vc-connections of a specific mesh-group.

Contents <connection>—No documentation is available yet.

<connections-summary>—No documentation is available yet.

<mesh-group-name>—Name of mesh-group.

<mesh-group-interfaces>

Usage

```
<reference-site | ldp-vpls-reference-site | vpls-protocol-state>
  <mesh-group-interfaces>
    <mesh-group-name>mesh-group-name</mesh-group-name>
    <mesh-group-id>mesh-group-id</mesh-group-id>
    <mesh-group-state>mesh-group-state</mesh-group-state>
    <interface>...</interface>
  </mesh-group-interfaces>
</reference-site | ldp-vpls-reference-site | vpls-protocol-state>
```

Description Information about all interfaces associated with a mesh-group.

Contents <interface>—No documentation is available yet.

<mesh-group-id>—Mesh-group Identifier.

<mesh-group-name>—Name of mesh-group.

<mesh-group-state>—Mesh-group state.

<message-statistics>

Usage

```
<rsvp-statistics-information | rsvp-interface>
  <message-statistics>
    <rsvp-message>rsvp-message</rsvp-message>
    <messages-sent>messages-sent</messages-sent>
    <messages-received>messages-received</messages-received>
    <messages-sent-5seconds>messages-sent-5seconds</messages-sent-5seconds>
    <messages-received-5seconds>messages-received-5seconds
                </messages-received-5seconds>
  </message-statistics>
</rsvp-statistics-information | rsvp-interface>
```

Description Statistics per RSVP message type.

Contents <messages-received>—Total number of messages received.

<messages-received-5seconds>—Number of messages received in the last 5 seconds.

<messages-sent>—Total number of messages sent.

<messages-sent-5seconds>—Number of messages sent in the last 5 seconds.

<rsvp-message>—No documentation is available yet.

<mgm-configured-parameters>

Usage

```
<igmp-interface-information | mld-interface-information>
  <mgm-configured-parameters>
    <query-interval>query-interval</query-interval>
    <query-response-interval>query-response-interval</query-response-interval>
    <last-member-query-interval>last-member-query-interval
                </last-member-query-interval>
    <robustness-count>robustness-count</robustness-count>
  </mgm-configured-parameters>
</igmp-interface-information | mld-interface-information>
```

Description No documentation is available yet.

Contents <last-member-query-interval>—No documentation is available yet.

<query-interval>—No documentation is available yet.

<query-response-interval>—No documentation is available yet.

<robustness-count>—No documentation is available yet.

<mgm-derived-parameters>

Usage

```
<igmp-interface-information | mld-interface-information>
  <mgm-derived-parameters>
    <membership-timeout>membership-timeout</membership-timeout>
    <query-other-timeout>query-other-timeout</query-other-timeout>
  </mgm-derived-parameters>
</igmp-interface-information | mld-interface-information>
```

Description No documentation is available yet.

Contents <membership-timeout>—No documentation is available yet.

<query-other-timeout>—No documentation is available yet.

<mgm-group>

Usage

```
<mgm-interface-groups>
  <mgm-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <mgm-source-timeout>mgm-source-timeout</mgm-source-timeout>
    <last-address>last-address</last-address>
    <mgm-timeout>mgm-timeout</mgm-timeout>
    <mgm-type>mgm-type</mgm-type>
    <mgm-group-mode-type>mgm-group-mode-type</mgm-group-mode-type>
    <host-record>...</host-record>
    <reverse-oif>...</reverse-oif>
    <mgm-group-output-interface>mgm-group-output-interface
                </mgm-group-output-interface>
    <mgm-output-interface-status>mgm-output-interface-status
                </mgm-output-interface-status>
  </mgm-group>
</mgm-interface-groups>
```

Description No documentation is available yet.

Contents <host-record>—No documentation is available yet.

<last-address>—No documentation is available yet.

<mgm-group-mode-type>—Group operational mode (Include/Exclude).

<mgm-group-output-interface>—Group output interface.

<mgm-output-interface-status>—Group output interface status.

<mgm-source-timeout>—Amount of time for which the traffic from source is forwarded.

<mgm-timeout>—No documentation is available yet.

<mgm-type>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<reverse-oif>—No documentation is available yet.

<mgm-host>

Usage

```
<mgm-interface>
  <mgm-host>
    <mgm-host-address>mgm-host-address</mgm-host-address>
    <mgm-host-record-count>mgm-host-record-count</mgm-host-record-count>
  </mgm-host>
</mgm-interface>
```

Description No documentation is available yet.

Contents <mgm-host-address>—No documentation is available yet.

<mgm-host-record-count>—No documentation is available yet.

<mgm-interface>

Usage

```
<igmp-interface-information | mld-interface-information | igmp-hosts-information |
mld-hosts-information>
  <mgm-interface>
    <interface-name>interface-name</interface-name>
    <querier-address>querier-address</querier-address>
    <mgm-interface-state>mgm-interface-state</mgm-interface-state>
    <querier-timeout>querier-timeout</querier-timeout>
    <mgm-interface-version>mgm-interface-version</mgm-interface-version>
    <mgm-group-count>mgm-group-count</mgm-group-count>
    <mgm-ssm-map>mgm-ssm-map</mgm-ssm-map>
    <mgm-immediate-leave>mgm-immediate-leave</mgm-immediate-leave>
    <mgm-promiscuous-mode>mgm-promiscuous-mode</mgm-promiscuous-mode>
    <mgm-passive>mgm-passive</mgm-passive>
    <mgm-passive-allow-receive/>
    <mgm-passive-send-general-query/>
    <mgm-passive-send-group-query/>
    <mgm-group-policy>mgm-group-policy</mgm-group-policy>
    <mgm-oif-map>mgm-oif-map</mgm-oif-map>
    <mgm-host>...</mgm-host>
  </mgm-interface>
</igmp-interface-information | mld-interface-information | igmp-hosts-information |
mld-hosts-information>
```

Description No documentation is available yet.

Contents

<interface-name>—No documentation is available yet.

<mgm-group-count>—No documentation is available yet.

<mgm-group-policy>—Group filter applied to incoming Report messages.

<mgm-host>—No documentation is available yet.

<mgm-immediate-leave>—Groups are removed immediately without sending last membership queries.

<mgm-interface-state>—No documentation is available yet.

<mgm-interface-version>—No documentation is available yet.

<mgm-oif-map>—Output interface mapping policy.

<mgm-passive>—Do not send or receive control messages.

<mgm-passive-allow-receive>—Allow receiving control messages.

<mgm-passive-send-general-query>—Send general query messages.

<mgm-passive-send-group-query>—Send group query messages.

<mgm-promiscuous-mode>—IGMP messages coming from different subnet are accepted.

<mgm-ssm-map>—Name of source-specific multicast map.

<querier-address>—No documentation is available yet.

<querier-timeout>—No documentation is available yet.

<mgm-interface-groups>

Usage
```
<igmp-group-information | mld-group-information>
  <mgm-interface-groups>
    <interface-name>interface-name</interface-name>
    <mgm-group>...</mgm-group>
  </mgm-interface-groups>
</igmp-group-information | mld-group-information>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<mgm-group>—No documentation is available yet.

<mgm-interface-output-groups>

Usage
```
<igmp-output-group-information | mld-output-group-information>
  <mgm-interface-output-groups>
    <interface-name>interface-name</interface-name>
    <mgm-output-interface-status>mgm-output-interface-status
                  </mgm-output-interface-status>
    <mgm-output-group>...</mgm-output-group>
  </mgm-interface-output-groups>
</igmp-output-group-information | mld-output-group-information>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<mgm-output-group>—No documentation is available yet.

<mgm-output-interface-status>—Group output interface status.

<mgm-other-statistic>

Usage
```
<mgm-statistics-other | mgm-statistics-global | mgm-statistics-interface>
  <mgm-other-statistic>
    <statistic-name>statistic-name</statistic-name>
    <statistic-count>statistic-count</statistic-count>
  </mgm-other-statistic>
</mgm-statistics-other | mgm-statistics-global | mgm-statistics-interface>
```

Description No documentation is available yet.

Contents <statistic-count>—No documentation is available yet.

<statistic-name>—No documentation is available yet.

<mgm-output-group>

Usage

```
<mgm-interface-output-groups>
  <mgm-output-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <mgm-type>mgm-type</mgm-type>
    <mgm-group-mode-type>mgm-group-mode-type</mgm-group-mode-type>
    <mgm-group-input-interface>mgm-group-input-interface
                </mgm-group-input-interface>
  </mgm-output-group>
</mgm-interface-output-groups>
```

Description No documentation is available yet.

Contents <mgm-group-input-interface>—Group input interface.

<mgm-group-mode-type>—Group operational mode (Include/Exclude).

<mgm-type>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<mgm-statistic>

Usage

```
<mgm-statistics-group | mgm-statistics-interface>
  <mgm-statistic>
    <statistic-name>statistic-name</statistic-name>
    <received-count>received-count</received-count>
    <sent-count>sent-count</sent-count>
    <error-count>error-count</error-count>
  </mgm-statistic>
</mgm-statistics-group | mgm-statistics-interface>
```

Description No documentation is available yet.

Contents <error-count>—Total number of errors encountered.

<received-count>—No documentation is available yet.

<sent-count>—No documentation is available yet.

<statistic-name>—No documentation is available yet.

<mgm-statistics-all>

Usage
```
<igmp-statistics-information | mld-statistics-information>
  <mgm-statistics-all>
    <mgm-statistics-group>...</mgm-statistics-group>
    <mgm-statistics-other>...</mgm-statistics-other>
    <mgm-statistics-global>...</mgm-statistics-global>
  </mgm-statistics-all>
</igmp-statistics-information | mld-statistics-information>
```

Description No documentation is available yet.

Contents <mgm-statistics-global>—No documentation is available yet.

<mgm-statistics-group>—No documentation is available yet.

<mgm-statistics-other>—No documentation is available yet.

<mgm-statistics-global>

Usage
```
<mgm-statistics-interface | igmp-statistics-information | mgm-statistics-all |
mld-statistics-information>
  <mgm-statistics-global>
    <mgm-other-statistic>...</mgm-other-statistic>
  </mgm-statistics-global>
</mgm-statistics-interface | igmp-statistics-information | mgm-statistics-all |
mld-statistics-information>
```

Description No documentation is available yet.

Contents <mgm-other-statistic>—No documentation is available yet.

<mgm-statistics-group>

Usage
```
<mgm-statistics-interface | mgm-statistics-all>
  <mgm-statistics-group>
    <mgm-statistic>...</mgm-statistic>
  </mgm-statistics-group>
</mgm-statistics-interface | mgm-statistics-all>
```

Description No documentation is available yet.

Contents <mgm-statistic>—No documentation is available yet.

<mgm-statistics-interface>

Usage

```
<igmp-statistics-information | mld-statistics-information>
  <mgm-statistics-interface>
    <interface-name>interface-name</interface-name>
    <mgm-disabled-interface-name>mgm-disabled-interface-name
                </mgm-disabled-interface-name>
    <mgm-interface-all/>
    <mgm-statistics-group>...</mgm-statistics-group>
    <mgm-statistics-other>...</mgm-statistics-other>
    <mgm-statistics-global>...</mgm-statistics-global>
    <mgm-statistic>...</mgm-statistic>
    <mgm-other-statistic>...</mgm-other-statistic>
  </mgm-statistics-interface>
</igmp-statistics-information | mld-statistics-information>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<mgm-disabled-interface-name>—No documentation is available yet.

<mgm-interface-all>—No documentation is available yet.

<mgm-other-statistic>—No documentation is available yet.

<mgm-statistic>—No documentation is available yet.

<mgm-statistics-global>—No documentation is available yet.

<mgm-statistics-group>—No documentation is available yet.

<mgm-statistics-other>—No documentation is available yet.

<mgm-statistics-other>

Usage

```
<mgm-statistics-interface | igmp-statistics-information | mgm-statistics-all |
mld-statistics-information>
  <mgm-statistics-other>
    <mgm-other-statistic>...</mgm-other-statistic>
  </mgm-statistics-other>
</mgm-statistics-interface | igmp-statistics-information | mgm-statistics-all |
mld-statistics-information>
```

Description No documentation is available yet.

Contents <mgm-other-statistic>—No documentation is available yet.

<mld-group-information>

Usage
```
<rpc-reply>
  <mld-group-information>
    <mgm-interface-groups>...</mgm-interface-groups>
  </mld-group-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-interface-groups>—No documentation is available yet.

<mld-hosts-information>

Usage
```
<rpc-reply>
  <mld-hosts-information>
    <mgm-disabled-interface-name>mgm-disabled-interface-name
                </mgm-disabled-interface-name>
    <mgm-interface>...</mgm-interface>
  </mld-hosts-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-disabled-interface-name>—No documentation is available yet.

<mgm-interface>—No documentation is available yet.

<mld-interface-information>

Usage
```
<rpc-reply>
  <mld-interface-information>
    <mgm-interface>...</mgm-interface>
    <mgm-configured-parameters>...</mgm-configured-parameters>
    <mgm-derived-parameters>...</mgm-derived-parameters>
  </mld-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-configured-parameters>—No documentation is available yet.

<mgm-derived-parameters>—No documentation is available yet.

<mgm-interface>—No documentation is available yet.

<mld-output-group-information>

Usage
```
<rpc-reply>
  <mld-output-group-information>
    <mgm-interface-output-groups>...</mgm-interface-output-groups>
  </mld-output-group-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-interface-output-groups>—No documentation is available yet.

<mld-statistics-information>

Usage
```
<rpc-reply>
  <mld-statistics-information>
    <mgm-statistics-interface>...</mgm-statistics-interface>
    <mgm-statistics-other>...</mgm-statistics-other>
    <mgm-statistics-global>...</mgm-statistics-global>
    <mgm-statistics-all>...</mgm-statistics-all>
  </mld-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mgm-statistics-all>—No documentation is available yet.

<mgm-statistics-global>—No documentation is available yet.

<mgm-statistics-interface>—No documentation is available yet.

<mgm-statistics-other>—No documentation is available yet.

<mpls-admin-group>

Usage
```
<mpls-admin-group-information>
  <mpls-admin-group>
    <admin-group-name>admin-group-name</admin-group-name>
    <index>index</index>
  </mpls-admin-group>
</mpls-admin-group-information>
```

Description No documentation is available yet.

Contents <admin-group-name>—Name of the admin group.

<index>—No documentation is available yet.

<mpls-admin-group-information>

Usage
```
<rpc-reply>
  <mpls-admin-group-information>
    <mpls-admin-group>...</mpls-admin-group>
  </mpls-admin-group-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-admin-group>—No documentation is available yet.

<mpls-call-admission-control>

Usage
```
<mpls-call-admission-control-information>
  <mpls-call-admission-control>
    <mpls-lsp>...</mpls-lsp>
  </mpls-call-admission-control>
</mpls-call-admission-control-information>
```

Description No documentation is available yet.

Contents <mpls-lsp>—MPLS label-switched path information.

<mpls-call-admission-control-information>

Usage
```
<rpc-reply>
  <mpls-call-admission-control-information>
    <mpls-call-admission-control>...</mpls-call-admission-control>
  </mpls-call-admission-control-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-call-admission-control>—No documentation is available yet.

<mpls-cspf>

Usage
```
<mpls-cspf-information>
  <mpls-cspf>
    <cspf-queue>...</cspf-queue>
    <cspf-paths>...</cspf-paths>
    <cspf-timing>...</cspf-timing>
  </mpls-cspf>
</mpls-cspf-information>
```

Description No documentation is available yet.

Contents <cspf-paths>—CSPF path computations statistics.

<cspf-queue>—CSPF queue statistics.

<cspf-timing>—CSPF timing statistics.

<mpls-cspf-information>

Usage

```
<rpc-reply>
  <mpls-cspf-information>
    <mpls-cspf>...</mpls-cspf>
  </mpls-cspf-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-cspf>—No documentation is available yet.

<mpls-diffserv-te-information>

Usage

```
<rpc-reply>
  <mpls-diffserv-te-information>
    <bandwidth-model>bandwidth-model</bandwidth-model>
    <te-class-map>...</te-class-map>
  </mpls-diffserv-te-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <bandwidth-model>—Bandwidth model in use.

<te-class-map>—No documentation is available yet.

<mpls-error>

Usage

```
<rpc-reply>
  <mpls-error>
    <mpls-error-msg>mpls-error-msg</mpls-error-msg>
  </mpls-error>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-error-msg>—MPLS error message.

<mpls-interface>

Usage

```
<mpls-interface-information>
  <mpls-interface>
    <interface-name>interface-name</interface-name>
    <mpls-interface-state>mpls-interface-state</mpls-interface-state>
    <no-group-flag/>
    <admin-group-name>admin-group-name</admin-group-name>
    <admin-group-number>admin-group-number</admin-group-number>
  </mpls-interface>
</mpls-interface-information>
```

Description No documentation is available yet.

Contents <admin-group-name>—Name of the admin group.

<admin-group-number>—Number of the admin group.

<interface-name>—No documentation is available yet.

<mpls-interface-state>—No documentation is available yet.

<no-group-flag>—No documentation is available yet.

<mpls-interface-information>

Usage

```
<rpc-reply>
  <mpls-interface-information>
    <mpls-interface>...</mpls-interface>
  </mpls-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-interface>—No documentation is available yet.

<mpls-lsp>

Usage

```
<rsvp-session | mpls-call-admission-control>
  <mpls-lsp>
    <destination-address>destination-address</destination-address>
    <source-address>source-address</source-address>
    <lsp-state>lsp-state</lsp-state>
    <route-count>route-count</route-count>
    <active-path>active-path</active-path>
    <is-primary/>
    <name>name</name>
    <bidirectional/>
    <lsp-description>lsp-description</lsp-description>
    <lsp-pktbytes>lsp-pktbytes</lsp-pktbytes>
    <no-statistics/>
    <mpls-p2mp-name>mpls-p2mp-name</mpls-p2mp-name>
    <is-fastreroute/>
    <is-linkprotection/>
    <is-nodeprotection/>
    <requires-intra-domain-path/>
    <load-balance>load-balance</load-balance>
    <lsp-diffserv-te-info>lsp-diffserv-te-info</lsp-diffserv-te-info>
    <metric>metric</metric>
    <revert-timer>revert-timer</revert-timer>
    <revert-timer-remain>revert-timer-remain</revert-timer-remain>
    <optimize-protection-timer>optimize-protection-timer
                </optimize-protection-timer>
    <admin-groups>...</admin-groups>
    <lsp-creation-time>lsp-creation-time</lsp-creation-time>
    <lsp-soft-preemption-counter>lsp-soft-preemption-counter
                </lsp-soft-preemption-counter>
    <lsp-soft-preemption-time>lsp-soft-preemption-time</lsp-soft-preemption-time>
    <retry-timer>retry-timer</retry-timer>
    <retry-limit>retry-limit</retry-limit>
    <mpls-lsp-autobandwidth>...</mpls-lsp-autobandwidth>
    <mpls-lsp-path>...</mpls-lsp-path>
    <mpls-lsp-attributes>...</mpls-lsp-attributes>
  </mpls-lsp>
</rsvp-session | mpls-call-admission-control>
```

Description MPLS label-switched path information.

Contents <active-path>—Path that the LSP is currently using.

<admin-groups>—No documentation is available yet.

<bidirectional>—LSP is bidirectional.

<destination-address>—Session destination address.

<is-fastreroute>—Detours will be established for an LSP so that if a node or link in the LSP fails, the traffic on the LSP can be rerouted with minimal packet loss.

<is-linkprotection>—Protect links via bypass LSPs.

<is-nodeprotection>—Protect link/node via bypass LSPs.

<is-primary>—Path is a primary path.

<load-balance>—Load-balancing algorithm chosen.

<lsp-creation-time>—Time when the LSP was created.

<lsp-description>—LSP description string (up to 80 characters).

<lsp-diffserv-te-info>—LSP support of DiffServ-TE extensions.

<lsp-pktbytes>—No documentation is available yet.

<lsp-soft-preemption-counter>—Number of times the LSP was soft preempted.

<lsp-soft-preemption-time>—Time when the LSP was last soft preempted.

<lsp-state>—State of an LSP.

<metric>—No documentation is available yet.

<mpls-lsp-attributes>—No documentation is available yet.

<mpls-lsp-autobandwidth>—No documentation is available yet.

<mpls-lsp-path>—Primary or secondary LSP path.

<mpls-p2mp-name>—No documentation is available yet.

<name>—No documentation is available yet.

<no-statistics>—No statistics are available for this session.

<optimize-protection-timer>—Optimize interval for fast-reroute detours, or link-protection bypasses.

<requires-intra-domain-path>—LSP path should be within the TE domain.

<retry-limit>—Maximum number of times the ingress tries to establish the primary path. It is reset each time primary path is created successfully.

<retry-timer>—Amount of time the ingress router waits between attempts to establish primary path.

<revert-timer>—Hold-down time before reverting to primary path.

<revert-timer-remain>—Time remaining before reverting:.

<route-count>—Number of active routes.

<source-address>—No documentation is available yet.

<mpls-lsp-attributes>

Usage

```
<mpls-lsp | mpls-restart-lsp>
  <mpls-lsp-attributes>
    <signal-type>signal-type</signal-type>
    <encoding-type>encoding-type</encoding-type>
    <switching-type>switching-type</switching-type>
    <gpid>gpid</gpid>
    <protection-type>protection-type</protection-type>
  </mpls-lsp-attributes>
</mpls-lsp | mpls-restart-lsp>
```

Description No documentation is available yet.

Contents <encoding-type>—LSP encoding type.

<gpid>—LSP generalized PID.

<protection-type>—LSP protection desired.

<signal-type>—No documentation is available yet.

<switching-type>—LSP switching capability.

<mpls-lsp-autobandwidth>

Usage

```
<mpls-lsp>
  <mpls-lsp-autobandwidth>
    <monitor-lsp-bandwidth/>
    <minimum-bandwidth>minimum-bandwidth</minimum-bandwidth>
    <maximum-bandwidth>maximum-bandwidth</maximum-bandwidth>
    <adjust-timer>adjust-timer</adjust-timer>
    <bandwidth>bandwidth</bandwidth>
    <time-to-adjust>time-to-adjust</time-to-adjust>
    <adjust-threshold>adjust-threshold</adjust-threshold>
    <overflow-limit>overflow-limit</overflow-limit>
    <overflow-sample-count>overflow-sample-count</overflow-sample-count>
  </mpls-lsp-autobandwidth>
</mpls-lsp>
```

Description No documentation is available yet.

Contents

<adjust-threshold>—Percentage change in average LSP utilization to trigger autoadjustment.

<adjust-timer>—Configured LSP adjust timer.

<bandwidth>—No documentation is available yet.

<maximum-bandwidth>—Configured LSP maximum bandwidth.

<minimum-bandwidth>—Configured LSP minimum bandwidth.

<monitor-lsp-bandwidth>—LSP adjusts bandwidth automatically, but continue to passively monitor the maximum average bandwidth usage of the LSP.

<overflow-limit>—On encountering the configured limit of consecutive overflow samples, LSP will attempt to autoadjust bandwidth.

<overflow-sample-count>—Number of consecutive overflow samples encountered.

<time-to-adjust>—Time in which LSP will autoadjust bandwidth.

<mpls-lsp-defaults>

Usage

```
<mpls-lsp-defaults-information>
  <mpls-lsp-defaults>
    <lsp-setup-priority>lsp-setup-priority</lsp-setup-priority>
    <lsp-hold-priority>lsp-hold-priority</lsp-hold-priority>
    <lsp-retry-timer>lsp-retry-timer</lsp-retry-timer>
    <lsp-hoplimit>lsp-hoplimit</lsp-hoplimit>
    <lsp-bandwidth>lsp-bandwidth</lsp-bandwidth>
  </mpls-lsp-defaults>
</mpls-lsp-defaults-information>
```

Description No documentation is available yet.

Contents <lsp-bandwidth>—Default LSP Bandwidth.

<lsp-hold-priority>—Hold priority determines whether a session can be preempted by another session. Range is 0 to 7.

<lsp-hoplimit>—Maximum number of hops that can be traversed.

<lsp-retry-timer>—Amount of time the ingress router waits between attempts to establish primary path.

<lsp-setup-priority>—Setup priority determines the ability of a session to preempt existing session. Range is 0 to 7.

<mpls-lsp-defaults-information>

Usage

```
<rpc-reply>
  <mpls-lsp-defaults-information>
    <mpls-lsp-defaults>...</mpls-lsp-defaults>
  </mpls-lsp-defaults-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-lsp-defaults>—No documentation is available yet.

<mpls-lsp-information>

Usage

```
<rpc-reply>
  <mpls-lsp-information>
    <rsvp-session-data>...</rsvp-session-data>
  </mpls-lsp-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rsvp-session-data>—No documentation is available yet.

<mpls-lsp-path>

Usage

```
<mpls-lsp>
  <mpls-lsp-path>
    <path-active/>
    <title>title</title>
    <name>name</name>
    <path-state>path-state</path-state>
    <cos>cos</cos>
    <no-decrement-ttl/>
    <preference>preference</preference>
    <path-soft-preemption-pending/>
    <setup-priority>setup-priority</setup-priority>
    <hold-priority>hold-priority</hold-priority>
    <bandwidth>bandwidth</bandwidth>
    <actual-bandwidth>actual-bandwidth</actual-bandwidth>
    <per-class-bandwidth-heading>per-class-bandwidth-heading
                </per-class-bandwidth-heading>
    <bandwidth_ct0>bandwidth_ct0</bandwidth_ct0>
    <bandwidth_ct1>bandwidth_ct1</bandwidth_ct1>
    <bandwidth_ct2>bandwidth_ct2</bandwidth_ct2>
    <bandwidth_ct3>bandwidth_ct3</bandwidth_ct3>
    <path-adaptive/>
    <path-no-recordroute/>
    <hoplimit>hoplimit</hoplimit>
    <optimize-timer>optimize-timer</optimize-timer>
    <smart-optimize-timer>smart-optimize-timer</smart-optimize-timer>
    <admin-groups>...</admin-groups>
    <retry-timer>retry-timer</retry-timer>
    <retry-limit>retry-limit</retry-limit>
    <cspf-status>cspf-status</cspf-status>
    <explicit-route>...</explicit-route>
    <received-rro>received-rro</received-rro>
    <oam-state>...</oam-state>
    <path-history>...</path-history>
    <path-available-bandwidth>...</path-available-bandwidth>
    <layer2-connection>...</layer2-connection>
  </mpls-lsp-path>
</mpls-lsp>
```

Description Primary or secondary LSP path.

Contents <actual-bandwidth>—No documentation is available yet.

<admin-groups>—No documentation is available yet.

<bandwidth>—No documentation is available yet.

<bandwidth_ct0>—No documentation is available yet.

<bandwidth_ct1>—No documentation is available yet.

<bandwidth_ct2>—No documentation is available yet.

<bandwidth_ct3>—No documentation is available yet.

<cos>—CoS value.

<cspf-status>—Status returned by CSPF computation.

<explicit-route>—Explicit Route Object (ERO).

<hold-priority>—Hold priority determines whether a session can be preempted by another session. Range is 0 to 7.

<hoplimit>—Maximum number of hops that can be traversed.

<layer2-connection>—Layer 2 connection using the LSP path.

<name>—No documentation is available yet.

<no-decrement-ttl>—TTL.

<oam-state>—OAM state information.

<optimize-timer>—Frequency of reoptimization operation for LSPs that are already set up. It is useful only when CSPF is enabled.

<path-active>—Whether the path is active or not.

<path-adaptive>—During reroute, the bandwidth on links shared by the old and new paths is not double-counted. SE-style reservation is used to assist in smooth transition during rerouting.

<path-available-bandwidth>—Available bandwidth on an LSP path.

<path-history>—Log over time of LSP path-related events.

<path-no-recordroute>—LSP does not actively record routes in the path.

<path-soft-preemption-pending>—Soft preemption pending for this path.

<path-state>—State of the MPLS path.

<per-class-bandwidth-heading>—No documentation is available yet.

<preference>—Preference value configured with the preference statement. The default preference value is 170.

<received-rro>—RRO returned by the signaling protocol.

<retry-limit>—Maximum number of times the ingress tries to establish the primary path. It is reset each time primary path is created successfully.

<retry-timer>—Amount of time the ingress router waits between attempts to establish primary path.

<setup-priority>—Setup priority determines the ability of a session to preempt existing session. Range is 0 to 7.

<smart-optimize-timer>—Path optimization interval after a link traversed by the path

goes down.

<title>—No documentation is available yet.

<mpls-oam-ldp-replication>

Usage

```
<mpls-oam-ldp-replication-information>
  <mpls-oam-ldp-replication>
    <mpls-oam-instance-id>mpls-oam-instance-id</mpls-oam-instance-id>
    <mpls-oam-type>mpls-oam-type</mpls-oam-type>
    <mpls-oam-ldp-fec>mpls-oam-ldp-fec</mpls-oam-ldp-fec>
    <mpls-oam-ldp-fec-len>mpls-oam-ldp-fec-len</mpls-oam-ldp-fec-len>
    <mpls-oam-bfd-dest-addr>mpls-oam-bfd-dest-addr</mpls-oam-bfd-dest-addr>
    <mpls-mirror-oam-local-bfd-disc>mpls-mirror-oam-local-bfd-disc
            </mpls-mirror-oam-local-bfd-disc>
    <mpls-oam-ldp-source>mpls-oam-ldp-source</mpls-oam-ldp-source>
    <mpls-mirror-oam-remote-bfd-disc>mpls-mirror-oam-remote-bfd-disc
            </mpls-mirror-oam-remote-bfd-disc>
    <mpls-mirror-oam-refcount>mpls-mirror-oam-refcount</mpls-mirror-oam-refcount>
    <mpls-mirror-oam-address>mpls-mirror-oam-address</mpls-mirror-oam-address>
    <mpls-mirror-oam-mpls-oam-address>mpls-mirror-oam-mpls-oam-address
            </mpls-mirror-oam-mpls-oam-address>
  </mpls-oam-ldp-replication>
</mpls-oam-ldp-replication-information>
```

Description MPLS OAM LDP replication entry.

Contents <mpls-mirror-oam-address>—Address of MPLS mirror OAM entry.

<mpls-mirror-oam-local-bfd-disc>—Local BFD discriminator.

<mpls-mirror-oam-mpls-oam-address>—Address of MPLS OAM entry.

<mpls-mirror-oam-refcount>—Reference count.

<mpls-mirror-oam-remote-bfd-disc>—Remote BFD discriminator.

<mpls-oam-bfd-dest-addr>—BFD destination address.

<mpls-oam-instance-id>—Routing instance identifier.

<mpls-oam-ldp-fec>—LDP FEC entry.

<mpls-oam-ldp-fec-len>—LDP FEC length.

<mpls-oam-ldp-source>—LDP ingress LSR.

<mpls-oam-type>—Type of OAM entry.

<mpls-oam-ldp-replication-information>

Usage
```
<rpc-reply>
  <mpls-oam-ldp-replication-information>
    <mpls-oam-ldp-replication>...</mpls-oam-ldp-replication>
  </mpls-oam-ldp-replication-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-oam-ldp-replication>—MPLS OAM LDP replication entry.

<mpls-p2mp-lsp>

Usage
```
<rsvp-session-data>
  <mpls-p2mp-lsp>
    <mpls-p2mp-name>mpls-p2mp-name</mpls-p2mp-name>
    <mpls-p2mp-branch-count>mpls-p2mp-branch-count</mpls-p2mp-branch-count>
  </mpls-p2mp-lsp>
</rsvp-session-data>
```

Description No documentation is available yet.

Contents <mpls-p2mp-branch-count>—No documentation is available yet.

<mpls-p2mp-name>—No documentation is available yet.

<mpls-p2mp-restart-database>

Usage
```
<mpls-p2mp-restart-database-information>
  <mpls-p2mp-restart-database>
    <mpls-p2mp-restart-lsp>...</mpls-p2mp-restart-lsp>
  </mpls-p2mp-restart-database>
</mpls-p2mp-restart-database-information>
```

Description No documentation is available yet.

Contents <mpls-p2mp-restart-lsp>—No documentation is available yet.

<mpls-p2mp-restart-database-information>

Usage
```
<rpc-reply>
  <mpls-p2mp-restart-database-information>
    <mpls-p2mp-restart-database>...</mpls-p2mp-restart-database>
  </mpls-p2mp-restart-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-p2mp-restart-database>—No documentation is available yet.

<mpls-p2mp-restart-lsp>

Usage

```
<mpls-p2mp-restart-database>
  <mpls-p2mp-restart-lsp>
    <name>name</name>
    <tunnel-id>tunnel-id</tunnel-id>
    <lsp-id>lsp-id</lsp-id>
    <lsp-flags>lsp-flags</lsp-flags>
    <subgroup-id>subgroup-id</subgroup-id>
    <application-owner>application-owner</application-owner>
    <branch-lsp-count>branch-lsp-count</branch-lsp-count>
    <mpls-restart-lsp>...</mpls-restart-lsp>
  </mpls-p2mp-restart-lsp>
</mpls-p2mp-restart-database>
```

Description No documentation is available yet.

Contents

<application-owner>—No documentation is available yet.

<branch-lsp-count>—No documentation is available yet.

<lsp-flags>—No documentation is available yet.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<mpls-restart-lsp>—No documentation is available yet.

<name>—No documentation is available yet.

<subgroup-id>—No documentation is available yet.

<tunnel-id>—Tunnel ID or destination port for this session. It is unique to every session.

<mpls-path>

Usage

```
<mpls-path-information>
  <mpls-path>
    <name>name</name>
    <address>address</address>
    <path-type>path-type</path-type>
    <telink-id>telink-id</telink-id>
  </mpls-path>
</mpls-path-information>
```

Description No documentation is available yet.

Contents

<address>—No documentation is available yet.

<name>—No documentation is available yet.

<path-type>—No documentation is available yet.

<telink-id>—Link identifier of unnumbered link.

<mpls-path-information>

Usage
```
<rpc-reply>
  <mpls-path-information>
    <mpls-path>...</mpls-path>
  </mpls-path-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-path>—No documentation is available yet.

<mpls-restart-database>

Usage
```
<mpls-restart-database-information>
  <mpls-restart-database>
    <mpls-restart-lsp>...</mpls-restart-lsp>
  </mpls-restart-database>
</mpls-restart-database-information>
```

Description No documentation is available yet.

Contents <mpls-restart-lsp>—No documentation is available yet.

<mpls-restart-database-information>

Usage
```
<rpc-reply>
  <mpls-restart-database-information>
    <mpls-restart-database>...</mpls-restart-database>
  </mpls-restart-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mpls-restart-database>—No documentation is available yet.

<mpls-restart-lsp>

Usage

```
<mpls-restart-database | mpls-p2mp-restart-lsp>
  <mpls-restart-lsp>
    <name>name</name>
    <destination-address>destination-address</destination-address>
    <source-address>source-address</source-address>
    <lsp-state>lsp-state</lsp-state>
    <lsp-flags>lsp-flags</lsp-flags>
    <lsp-path-count>lsp-path-count</lsp-path-count>
    <mpls-lsp-attributes>...</mpls-lsp-attributes>
    <mpls-restart-path>...</mpls-restart-path>
  </mpls-restart-lsp>
</mpls-restart-database | mpls-p2mp-restart-lsp>
```

Description No documentation is available yet.

Contents <destination-address>—Session destination address.

<lsp-flags>—No documentation is available yet.

<lsp-path-count>—No documentation is available yet.

<lsp-state>—State of an LSP.

<mpls-lsp-attributes>—No documentation is available yet.

<mpls-restart-path>—No documentation is available yet.

<name>—No documentation is available yet.

<source-address>—No documentation is available yet.

<mpls-restart-path>

Usage

```
<mpls-restart-lsp>
  <mpls-restart-path>
    <lsp-path-type>lsp-path-type</lsp-path-type>
    <name>name</name>
    <path-standby/>
    <path-active/>
    <path-state>path-state</path-state>
    <lsp-id>lsp-id</lsp-id>
    <tunnel-id>tunnel-id</tunnel-id>
    <subgroup-id>subgroup-id</subgroup-id>
    <path-flags>path-flags</path-flags>
    <bandwidth>bandwidth</bandwidth>
    <per-class-bandwidth-heading>per-class-bandwidth-heading
                </per-class-bandwidth-heading>
    <bandwidth_ct0>bandwidth_ct0</bandwidth_ct0>
    <bandwidth_ct1>bandwidth_ct1</bandwidth_ct1>
    <bandwidth_ct2>bandwidth_ct2</bandwidth_ct2>
    <bandwidth_ct3>bandwidth_ct3</bandwidth_ct3>
    <explicit-route>...</explicit-route>
    <mpls-restart-rsvp>...</mpls-restart-rsvp>
  </mpls-restart-path>
</mpls-restart-lsp>
```

Description No documentation is available yet.

Contents

<bandwidth>—No documentation is available yet.

<bandwidth_ct0>—No documentation is available yet.

<bandwidth_ct1>—No documentation is available yet.

<bandwidth_ct2>—No documentation is available yet.

<bandwidth_ct3>—No documentation is available yet.

<explicit-route>—Explicit Route Object (ERO).

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<lsp-path-type>—Primary or secondary LSP path.

<mpls-restart-rsvp>—No documentation is available yet.

<name>—No documentation is available yet.

<path-active>—Whether the path is active or not.

<path-flags>—No documentation is available yet.

<path-standby>—No documentation is available yet.

<path-state>—State of the MPLS path.

<per-class-bandwidth-heading>—No documentation is available yet.

<subgroup-id>—No documentation is available yet.

<tunnel-id>—Tunnel ID or destination port for this session. It is unique to every session.

<mpls-restart-rsvp>

Usage

```
<mpls-restart-path>
  <mpls-restart-rsvp>
    <next-hop>next-hop</next-hop>
    <interface-name>interface-name</interface-name>
    <telink-name>telink-name</telink-name>
    <upstream-label-in>upstream-label-in</upstream-label-in>
    <label-out>label-out</label-out>
    <self-id>self-id</self-id>
    <explicit-route>...</explicit-route>
  </mpls-restart-rsvp>
</mpls-restart-path>
```

Description No documentation is available yet.

Contents <explicit-route>—Explicit Route Object (ERO).

<interface-name>—No documentation is available yet.

<label-out>—Outgoing label.

<next-hop>—Next-hop address.

<self-id>—Statistics identifier for RSVP path state control block.

<telink-name>—Name of the TE link.

<upstream-label-in>—Incoming upstream label.

<msdp-instance>

Usage

```
<msdp-source-active-information | msdp-source-information |
msdp-statistics-information>
  <msdp-instance>
    <instance-name>instance-name</instance-name>
    <msdp-no-routes>msdp-no-routes</msdp-no-routes>
    <msdp-route>...</msdp-route>
    <msdp-no-source>msdp-no-source</msdp-no-source>
    <msdp-source>...</msdp-source>

<msdp-global-active-source-limit-exceeded>msdp-global-active-source-limit-exceeded
                    </msdp-global-active-source-limit-exceeded>
    <msdp-peer-statistics>...</msdp-peer-statistics>
  </msdp-instance>
</msdp-source-active-information | msdp-source-information |
msdp-statistics-information>
```

Description No documentation is available yet.

Contents <instance-name>—No documentation is available yet.

<msdp-global-active-source-limit-exceeded>—No documentation is available yet.

<msdp-no-routes>—No documentation is available yet.

<msdp-no-source>—No documentation is available yet.

<msdp-peer-statistics>—No documentation is available yet.

<msdp-route>—No documentation is available yet.

<msdp-source>—No documentation is available yet.

<msdp-peer>

Usage

```
<msdp-peer-information>
  <msdp-peer>
    <msdp-peer-address>msdp-peer-address</msdp-peer-address>
    <msdp-local-address>msdp-local-address</msdp-local-address>
    <msdp-state>msdp-state</msdp-state>
    <msdp-state-change>msdp-state-change</msdp-state-change>
    <msdp-group-name>msdp-group-name</msdp-group-name>
    <msdp-connect-retries>msdp-connect-retries</msdp-connect-retries>
    <msdp-state-timeout>msdp-state-timeout</msdp-state-timeout>
    <msdp-peer-timeout>msdp-peer-timeout</msdp-peer-timeout>
    <msdp-sa-accepted>msdp-sa-accepted</msdp-sa-accepted>
    <msdp-sa-received>msdp-sa-received</msdp-sa-received>
  </msdp-peer>
</msdp-peer-information>
```

Description No documentation is available yet.

Contents <msdp-connect-retries>—No documentation is available yet.

<msdp-group-name>—No documentation is available yet.

<msdp-local-address>—No documentation is available yet.

<msdp-peer-address>—No documentation is available yet.

<msdp-peer-timeout>—No documentation is available yet.

<msdp-sa-accepted>—Number of SAs accepted from peer.

<msdp-sa-received>—Number of SAs received from peer.

<msdp-state>—No documentation is available yet.

<msdp-state-change>—No documentation is available yet.

<msdp-state-timeout>—No documentation is available yet.

<msdp-peer-information>

Usage

```
<rpc-reply>
  <msdp-peer-information>
    <msdp-no-peers/>
    <msdp-peer>...</msdp-peer>
  </msdp-peer-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <msdp-no-peers>—No documentation is available yet.

<msdp-peer>—No documentation is available yet.

<msdp-peer-statistics>

Usage

```
<msdp-instance>
  <msdp-peer-statistics>
    <msdp-peer-address>msdp-peer-address</msdp-peer-address>
    <msdp-state-change-absolute>msdp-state-change-absolute
            </msdp-state-change-absolute>
    <msdp-state-change>msdp-state-change</msdp-state-change>
    <msdp-message-received-absolute>msdp-message-received-absolute
            </msdp-message-received-absolute>
    <msdp-message-received>msdp-message-received</msdp-message-received>
    <msdp-rpf-failures>msdp-rpf-failures</msdp-rpf-failures>
    <msdp-remote-closes>msdp-remote-closes</msdp-remote-closes>
    <msdp-peer-timeouts>msdp-peer-timeouts</msdp-peer-timeouts>
    <msdp-sa-messages-sent>msdp-sa-messages-sent</msdp-sa-messages-sent>
    <msdp-sa-messages-received>msdp-sa-messages-received
            </msdp-sa-messages-received>
    <msdp-sa-requests-sent>msdp-sa-requests-sent</msdp-sa-requests-sent>
    <msdp-sa-requests-received>msdp-sa-requests-received
            </msdp-sa-requests-received>
    <msdp-sa-responses-sent>msdp-sa-responses-sent</msdp-sa-responses-sent>
    <msdp-sa-responses-received>msdp-sa-responses-received
            </msdp-sa-responses-received>
    <msdp-active-source-limit-exceeded>msdp-active-source-limit-exceeded
            </msdp-active-source-limit-exceeded>
    <msdp-keepalives-sent>msdp-keepalives-sent</msdp-keepalives-sent>

<msdp-keepalives-received>msdp-keepalives-received</msdp-keepalives-received>
    <msdp-unknowns-received>msdp-unknowns-received</msdp-unknowns-received>
    <msdp-errors-received>msdp-errors-received</msdp-errors-received>
  </msdp-peer-statistics>
</msdp-instance>
```

Description No documentation is available yet.

Contents <msdp-active-source-limit-exceeded>—No documentation is available yet.

<msdp-errors-received>—No documentation is available yet.

<msdp-keepalives-received>—No documentation is available yet.

<msdp-keepalives-sent>—No documentation is available yet.

<msdp-message-received>—No documentation is available yet.

<msdp-message-received-absolute>—No documentation is available yet.

<msdp-peer-address>—No documentation is available yet.

<msdp-peer-timeouts>—No documentation is available yet.

<msdp-remote-closes>—No documentation is available yet.

<msdp-rpf-failures>—No documentation is available yet.

<msdp-sa-messages-received>—No documentation is available yet.

<msdp-sa-messages-sent>—No documentation is available yet.

<msdp-sa-requests-received>—No documentation is available yet.

<msdp-sa-requests-sent>—No documentation is available yet.

<msdp-sa-responses-received>—No documentation is available yet.

<msdp-sa-responses-sent>—No documentation is available yet.

<msdp-state-change>—No documentation is available yet.

<msdp-state-change-absolute>—No documentation is available yet.

<msdp-unknowns-received>—No documentation is available yet.

<msdp-route>

Usage

```
<msdp-instance>
  <msdp-route>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <msdp-route-peer>...</msdp-route-peer>
  </msdp-route>
</msdp-instance>
```

Description No documentation is available yet.

Contents <msdp-route-peer>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<msdp-route-peer>

Usage

```
<msdp-route>
  <msdp-route-peer>
    <msdp-peer-address>msdp-peer-address</msdp-peer-address>
    <msdp-originator>msdp-originator</msdp-originator>
    <msdp-route-peer-flags>...</msdp-route-peer-flags>
  </msdp-route-peer>
</msdp-route>
```

Description No documentation is available yet.

Contents <msdp-originator>—No documentation is available yet.

<msdp-peer-address>—No documentation is available yet.

<msdp-route-peer-flags>—No documentation is available yet.

<msdp-route-peer-flags>

Usage

```
<msdp-route-peer>
  <msdp-route-peer-flags>
    <msdp-accept/>
    <msdp-reject/>
    <msdp-filtered/>
  </msdp-route-peer-flags>
</msdp-route-peer>
```

Description No documentation is available yet.

Contents <msdp-accept>—No documentation is available yet.

<msdp-filtered>—No documentation is available yet.

<msdp-reject>—No documentation is available yet.

<msdp-source>

Usage

```
<msdp-instance>
  <msdp-source>
    <msdp-source-prefix>msdp-source-prefix</msdp-source-prefix>
    <msdp-source-prefix-length>msdp-source-prefix-length
                </msdp-source-prefix-length>
    <msdp-source-type>msdp-source-type</msdp-source-type>
    <msdp-source-limit-maximum>msdp-source-limit-maximum
                </msdp-source-limit-maximum>
    <msdp-source-limit-threshold>msdp-source-limit-threshold
                </msdp-source-limit-threshold>
    <msdp-source-limit-exceeded>msdp-source-limit-exceeded
                </msdp-source-limit-exceeded>
  </msdp-source>
</msdp-instance>
```

Description No documentation is available yet.

Contents <msdp-source-limit-exceeded>—No documentation is available yet.

<msdp-source-limit-maximum>—No documentation is available yet.

<msdp-source-limit-threshold>—No documentation is available yet.

<msdp-source-prefix>—No documentation is available yet.

<msdp-source-prefix-length>—No documentation is available yet.

<msdp-source-type>—No documentation is available yet.

<msdp-source-active-information>

Usage
```
<rpc-reply>
  <msdp-source-active-information>
    <msdp-instance>...</msdp-instance>
  </msdp-source-active-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <msdp-instance>—No documentation is available yet.

<msdp-source-information>

Usage
```
<rpc-reply>
  <msdp-source-information>
    <msdp-instance>...</msdp-instance>
  </msdp-source-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <msdp-instance>—No documentation is available yet.

<msdp-statistics-information>

Usage
```
<rpc-reply>
  <msdp-statistics-information>
    <msdp-no-peer>msdp-no-peer</msdp-no-peer>
    <msdp-instance>...</msdp-instance>
  </msdp-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <msdp-instance>—No documentation is available yet.

<msdp-no-peer>—No documentation is available yet.

<mt-tlv>

Usage
```
<isis-tlv>
  <mt-tlv>
    <mtid>mtid</mtid>
  </mt-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <mtid>—No documentation is available yet.

<multicast-backup-pe-address-information>

Usage

```
<rpc-reply>
  <multicast-backup-pe-address-information>
    <multicast-backup-pe-address>multicast-backup-pe-address
                  </multicast-backup-pe-address>
    <multicast-backup-pe-group-list>...</multicast-backup-pe-group-list>
    <pe-address-local>pe-address-local</pe-address-local>
    <lsp-to-pe-up>lsp-to-pe-up</lsp-to-pe-up>
  </multicast-backup-pe-address-information>
</rpc-reply>
```

Description Information about multicast backup PE.

Contents <lsp-to-pe-up>—Indicates if the LSP to this PE is up.

<multicast-backup-pe-address>—Backup PE address.

<multicast-backup-pe-group-list>—Information about multicast backup PE groups associatd with PE.

<pe-address-local>—Indicates if this address belongs to this local PE.

<multicast-backup-pe-group>

Usage

```
<multicast-backup-pe-groups>
  <multicast-backup-pe-group>
    <multicast-backup-pe-group-name>multicast-backup-pe-group-name
                  </multicast-backup-pe-group-name>
    <designated-pe>designated-pe</designated-pe>
    <transitions>transitions</transitions>
    <last-transition>last-transition</last-transition>
    <local-pe-address>local-pe-address</local-pe-address>
    <backup-pes>...</backup-pes>
  </multicast-backup-pe-group>
</multicast-backup-pe-groups>
```

Description Information about a multicast backup PE group.

Contents <backup-pes>—Backup PE addresses.

<designated-pe>—Address of the designated PE.

<last-transition>—Time since last designated PE transition (hours:minutes:seconds).

<local-pe-address>—Local address used in designated router election.

<multicast-backup-pe-group-name>—Name of the backup PE group.

<transitions>—Number of times desginated PE has changed.

<multicast-backup-pe-group-list>

Usage
```
<multicast-backup-pe-address-information>
  <multicast-backup-pe-group-list>
    <multicast-backup-pe-group-member>...</multicast-backup-pe-group-member>
  </multicast-backup-pe-group-list>
</multicast-backup-pe-address-information>
```

Description Information about multicast backup PE groups associatd with PE.

Contents <multicast-backup-pe-group-member>—Information about a multicast backup PE group.

<multicast-backup-pe-group-member>

Usage
```
<multicast-backup-pe-group-list>
  <multicast-backup-pe-group-member>
    <multicast-backup-pe-group-name>multicast-backup-pe-group-name
                </multicast-backup-pe-group-name>
  </multicast-backup-pe-group-member>
</multicast-backup-pe-group-list>
```

Description Information about a multicast backup PE group.

Contents <multicast-backup-pe-group-name>—Name of the backup PE group.

<multicast-backup-pe-groups>

Usage
```
<multicast-backup-pe-groups-information>
  <multicast-backup-pe-groups>
    <instance-name>instance-name</instance-name>
    <multicast-backup-pe-group>...</multicast-backup-pe-group>
  </multicast-backup-pe-groups>
</multicast-backup-pe-groups-information>
```

Description Information about multicast backup PE groups for one routing instance.

Contents <instance-name>—No documentation is available yet.

<multicast-backup-pe-group>—Information about a multicast backup PE group.

<multicast-backup-pe-groups-information>

Usage
```
<rpc-reply>
  <multicast-backup-pe-groups-information>
    <multicast-backup-pe-groups>...</multicast-backup-pe-groups>
  </multicast-backup-pe-groups-information>
</rpc-reply>
```

Description Information about multicast backup PE groups for one or more routing instances.

Contents <multicast-backup-pe-groups>—Information about multicast backup PE groups for one routing instance.

<multicast-flow-map>

Usage
```
<multicast-flow-maps>
  <multicast-flow-map>
    <flow-map-name>flow-map-name</flow-map-name>
    <policy-name>policy-name</policy-name>
    <cache-timeout>cache-timeout</cache-timeout>
    <flow-bandwidth>flow-bandwidth</flow-bandwidth>
    <bandwidth-type>bandwidth-type</bandwidth-type>
    <redundant-sources>...</redundant-sources>
  </multicast-flow-map>
</multicast-flow-maps>
```

Description Information about a multicast flow map.

Contents <bandwidth-type>—Bandwidth type for matched flows.

<cache-timeout>—Delay before discarding a matched cache entry.

<flow-bandwidth>—Bandwidth for matched flows.

<flow-map-name>—Name of the flow map.

<policy-name>—Name of the policy.

<redundant-sources>—Redundant source addresses.

<multicast-flow-maps>

Usage
```
<multicast-flow-maps-information>
  <multicast-flow-maps>
    <instance-name>instance-name</instance-name>
    <multicast-flow-map>...</multicast-flow-map>
  </multicast-flow-maps>
</multicast-flow-maps-information>
```

Description Information about multicast flow maps for one routing instance.

Contents <instance-name>—No documentation is available yet.

<multicast-flow-map>—Information about a multicast flow map.

<multicast-flow-maps-information>

Usage
```
<rpc-reply>
  <multicast-flow-maps-information>
    <multicast-flow-maps>...</multicast-flow-maps>
  </multicast-flow-maps-information>
</rpc-reply>
```

Description Information about multicast flow maps for one or more routing instances.

Contents <multicast-flow-maps>—Information about multicast flow maps for one routing instance.

<multicast-group>

Usage

```
<multicast-usage-information>
  <multicast-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-count>multicast-source-count</multicast-source-count>
    <multicast-packet-count>multicast-packet-count</multicast-packet-count>
    <multicast-byte-count>multicast-byte-count</multicast-byte-count>
    <multicast-group-source>...</multicast-group-source>
  </multicast-group>
</multicast-usage-information>
```

Description No documentation is available yet.

Contents <multicast-byte-count>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-group-source>—No documentation is available yet.

<multicast-packet-count>—No documentation is available yet.

<multicast-source-count>—No documentation is available yet.

<multicast-group-source>

Usage

```
<multicast-group>
  <multicast-group-source>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <multicast-source-prefix-length>multicast-source-prefix-length
                </multicast-source-prefix-length>
    <multicast-packet-count>multicast-packet-count</multicast-packet-count>
    <multicast-byte-count>multicast-byte-count</multicast-byte-count>
  </multicast-group-source>
</multicast-group>
```

Description No documentation is available yet.

Contents <multicast-byte-count>—No documentation is available yet.

<multicast-packet-count>—No documentation is available yet.

<multicast-source-address>—Source address.

<multicast-source-prefix-length>—Source prefix length.

<multicast-interface>

Usage

```
<multicast-interface-information>
  <multicast-interface>
    <interface-name>interface-name</interface-name>
    <interface-max-bandwidth>interface-max-bandwidth</interface-max-bandwidth>
    <interface-remaining-bandwidth>interface-remaining-bandwidth
            </interface-remaining-bandwidth>
    <interface-local-bandwidth-deduction>interface-local-bandwidth-deduction
            </interface-local-bandwidth-deduction>
    <interface-mapped-bandwidth-deduction>interface-mapped-bandwidth-deduction
            </interface-mapped-bandwidth-deduction>
    <interface-reverse-oif-mapping>interface-reverse-oif-mapping
            </interface-reverse-oif-mapping>

<interface-reverse-oif-mapping-no-qos-adjust>interface-reverse-oif-mapping-no-qos-adjust
            </interface-reverse-oif-mapping-no-qos-adjust>
    <interface-subscriber-leave-timer>interface-subscriber-leave-timer
            </interface-subscriber-leave-timer>
    <interface-no-qos-adjust>interface-no-qos-adjust</interface-no-qos-adjust>
  </multicast-interface>
</multicast-interface-information>
```

Description Information about a multicast interface.

Contents

<interface-local-bandwidth-deduction>—Bandwidth deduction for local multicast flows.

<interface-mapped-bandwidth-deduction>—Bandwidth deduction for mapped multicast flows.

<interface-max-bandwidth>—Maximum bandwidth for multicast flows.

<interface-name>—No documentation is available yet.

<interface-no-qos-adjust>—Interface no QoS adjustment is enabled.

<interface-remaining-bandwidth>—Remaining bandwidth for multicast flows.

<interface-reverse-oif-mapping>—Reverse OIF mapping is enabled.

<interface-reverse-oif-mapping-no-qos-adjust>—Reverse OIF mapping no QoS adjust is enabled.

<interface-subscriber-leave-timer>—Bw restore waiting time after subscriber leaves group.

<multicast-interface-information>

Usage
```
<rpc-reply>
  <multicast-interface-information>
    <multicast-interface>...</multicast-interface>
  </multicast-interface-information>
</rpc-reply>
```

Description Information about one or more multicast interfaces.

Contents <multicast-interface>—Information about a multicast interface.

<multicast-next-hops-information>

Usage
```
<rpc-reply>
  <multicast-next-hops-information>
    <next-hops-family>...</next-hops-family>
  </multicast-next-hops-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <next-hops-family>—No documentation is available yet.

<multicast-pim-to-igmp-proxy>

Usage
```
<multicast-pim-to-igmp-proxy-information>
  <multicast-pim-to-igmp-proxy>
    <proxy-state>proxy-state</proxy-state>
    <proxy-upstream-interface>...</proxy-upstream-interface>
  </multicast-pim-to-igmp-proxy>
</multicast-pim-to-igmp-proxy-information>
```

Description Pim-to-igmp-proxy state.

Contents <proxy-state>—No documentation is available yet.

<proxy-upstream-interface>—No documentation is available yet.

<multicast-pim-to-igmp-proxy-information>

Usage
```
<rpc-reply>
  <multicast-pim-to-igmp-proxy-information>
    <multicast-pim-to-igmp-proxy>...</multicast-pim-to-igmp-proxy>
  </multicast-pim-to-igmp-proxy-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-pim-to-igmp-proxy>—Pim-to-igmp-proxy state.

<multicast-pim-to-mld-proxy>

Usage
```
<multicast-pim-to-mld-proxy-information>
  <multicast-pim-to-mld-proxy>
    <proxy-state>proxy-state</proxy-state>
    <proxy-upstream-interface>...</proxy-upstream-interface>
  </multicast-pim-to-mld-proxy>
</multicast-pim-to-mld-proxy-information>
```

Description Pim-to-mld-proxy state.

Contents <proxy-state>—No documentation is available yet.

<proxy-upstream-interface>—No documentation is available yet.

<multicast-pim-to-mld-proxy-information>

Usage
```
<rpc-reply>
  <multicast-pim-to-mld-proxy-information>
    <multicast-pim-to-mld-proxy>...</multicast-pim-to-mld-proxy>
  </multicast-pim-to-mld-proxy-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-pim-to-mld-proxy>—Pim-to-mld-proxy state.

<multicast-route>

Usage

```
<route-family>
  <multicast-route>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <multicast-route-vlan-id>multicast-route-vlan-id</multicast-route-vlan-id>
    <multicast-route-bridge-domain>multicast-route-bridge-domain
            </multicast-route-bridge-domain>
    <multicast-route-mesh-group>multicast-route-mesh-group
            </multicast-route-mesh-group>
    <multicast-source-prefix-length>multicast-source-prefix-length
            </multicast-source-prefix-length>
    <multicast-route-source>...</multicast-route-source>
    <session-name>session-name</session-name>
    <forwarding-rate-kilobytes>forwarding-rate-kilobytes
            </forwarding-rate-kilobytes>
    <forwarding-rate-packets>forwarding-rate-packets</forwarding-rate-packets>
    <forwarded-packet-count>forwarded-packet-count</forwarded-packet-count>
    <bandwidth-for-admission-control>bandwidth-for-admission-control
            </bandwidth-for-admission-control>
    <upstream-interface-name>upstream-interface-name</upstream-interface-name>
    <rpf-check-disabled/>
    <downstream-interface-names>downstream-interface-names
            </downstream-interface-names>
    <rejected-downstream-interface-names>rejected-downstream-interface-names
            </rejected-downstream-interface-names>
    <next-hop-id>next-hop-id</next-hop-id>
    <upstream-protocol>upstream-protocol</upstream-protocol>
    <multicast-route-forwarding-state>multicast-route-forwarding-state
            </multicast-route-forwarding-state>
    <multicast-route-state>multicast-route-state</multicast-route-state>
    <multicast-route-timeout>multicast-route-timeout</multicast-route-timeout>
    <interface-mismatch-count>interface-mismatch-count</interface-mismatch-count>
  </multicast-route>
</route-family>
```

Description No documentation is available yet.

Contents <bandwidth-for-admission-control>—Bandwidth used for admission control.

<downstream-interface-names>—No documentation is available yet.

<forwarded-packet-count>—No documentation is available yet.

<forwarding-rate-kilobytes>—No documentation is available yet.

<forwarding-rate-packets>—No documentation is available yet.

<interface-mismatch-count>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-route-bridge-domain>—No documentation is available yet.

<multicast-route-forwarding-state>—No documentation is available yet.

<multicast-route-mesh-group>—No documentation is available yet.

<multicast-route-source>—No documentation is available yet.

<multicast-route-state>—No documentation is available yet.

<multicast-route-timeout>—No documentation is available yet.

<multicast-route-vlan-id>—No documentation is available yet.

<multicast-source-address>—Source address.

<multicast-source-prefix-length>—Source prefix length.

<next-hop-id>—No documentation is available yet.

<rejected-downstream-interface-names>—Downstream interfaces rejected by bandwidth admission control.

<rpf-check-disabled>—Reverse path forwarding check is disabled.

<session-name>—No documentation is available yet.

<upstream-interface-name>—Upstream interface.

<upstream-protocol>—No documentation is available yet.

<multicast-route-information>

Usage

```
<rpc-reply>
  <multicast-route-information>
    <multicast-route-no-group-prefix>multicast-route-no-group-prefix
                </multicast-route-no-group-prefix>
    <multicast-route-no-family>multicast-route-no-family
                </multicast-route-no-family>
    <multicast-statistics-timed-out/>
    <route-family>...</route-family>
  </multicast-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-route-no-family>—No documentation is available yet.

<multicast-route-no-group-prefix>—No documentation is available yet.

<multicast-statistics-timed-out>—No documentation is available yet.

<route-family>—No documentation is available yet.

<multicast-route-source>

Usage

```
<multicast-route>
  <multicast-route-source>
    <multicast-source-address>multicast-source-address</multicast-source-address>
  </multicast-route-source>
</multicast-route>
```

Description No documentation is available yet.

Contents <multicast-source-address>—Source address.

<multicast-rpf-information>

Usage

```
<rpc-reply>
  <multicast-rpf-information>
    <rpf-family>...</rpf-family>
  </multicast-rpf-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rpf-family>—No documentation is available yet.

<multicast-scope>

Usage

```
<multicast-scope-information>
  <multicast-scope>
    <scope-name>scope-name</scope-name>
    <address-prefix>address-prefix</address-prefix>
    <interface-name>interface-name</interface-name>
    <scope-rejects>scope-rejects</scope-rejects>
    <scope-state>scope-state</scope-state>
  </multicast-scope>
</multicast-scope-information>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<scope-name>—Name of multicast scope.

<scope-rejects>—Number of rejects in multicast scope.

<scope-state>—No documentation is available yet.

<multicast-scope-information>

Usage

```
<rpc-reply>
  <multicast-scope-information>
    <multicast-scope-policy>multicast-scope-policy</multicast-scope-policy>
    <multicast-scope-policy-interfaces>...</multicast-scope-policy-interfaces>
    <multicast-scope>...</multicast-scope>
  </multicast-scope-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-scope>—No documentation is available yet.

<multicast-scope-policy>—No documentation is available yet.

<multicast-scope-policy-interfaces>—No documentation is available yet.

<multicast-scope-policy-interface>

Usage

```
<multicast-scope-policy-interfaces>
  <multicast-scope-policy-interface>
    <interface-name>interface-name</interface-name>
    <scope-rejects>scope-rejects</scope-rejects>
  </multicast-scope-policy-interface>
</multicast-scope-policy-interfaces>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<scope-rejects>—Number of rejects in multicast scope.

<multicast-scope-policy-interfaces>

Usage

```
<multicast-scope-information>
  <multicast-scope-policy-interfaces>
    <instance-name>instance-name</instance-name>
    <address-family>address-family</address-family>
    <multicast-scope-policy-interface>...</multicast-scope-policy-interface>
  </multicast-scope-policy-interfaces>
</multicast-scope-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<multicast-scope-policy-interface>—No documentation is available yet.

<multicast-session>

Usage

```
<multicast-sessions-information>
  <multicast-session>
    <session-announcement>session-announcement</session-announcement>
    <session-name>session-name</session-name>
    <session-version>session-version</session-version>
    <session-origin>...</session-origin>
    <upstream-protocol>upstream-protocol</upstream-protocol>
    <session-description>session-description</session-description>
    <session-uri>session-uri</session-uri>
    <session-email>session-email</session-email>
    <session-phone>session-phone</session-phone>
    <session-connection-data>...</session-connection-data>
    <session-bandwidth>session-bandwidth</session-bandwidth>
    <session-start-time>session-start-time</session-start-time>
    <session-stop-time>session-stop-time</session-stop-time>
    <session-encryption-key>session-encryption-key</session-encryption-key>
    <session-attribute>session-attribute</session-attribute>
    <session-media>session-media</session-media>
  </multicast-session>
</multicast-sessions-information>
```

Description No documentation is available yet.

Contents <session-announcement>—No documentation is available yet.

<session-attribute>—No documentation is available yet.

<session-bandwidth>—No documentation is available yet.

<session-connection-data>—No documentation is available yet.

<session-description>—No documentation is available yet.

<session-email>—No documentation is available yet.

<session-encryption-key>—No documentation is available yet.

<session-media>—No documentation is available yet.

<session-name>—No documentation is available yet.

<session-origin>—No documentation is available yet.

<session-phone>—No documentation is available yet.

<session-start-time>—No documentation is available yet.

<session-stop-time>—No documentation is available yet.

<session-uri>—No documentation is available yet.

<session-version>—No documentation is available yet.

<upstream-protocol>—No documentation is available yet.

<multicast-sessions-information>

Usage

```
<rpc-reply>
  <multicast-sessions-information>
    <multicast-session>...</multicast-session>
    <multicast-session-count>multicast-session-count</multicast-session-count>
    <multicast-sessions-type>multicast-sessions-type</multicast-sessions-type>
  </multicast-sessions-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-session>—No documentation is available yet.

<multicast-session-count>—No documentation is available yet.

<multicast-sessions-type>—No documentation is available yet.

<multicast-source>

Usage

```
<multicast-usage-information>
  <multicast-source>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <multicast-source-prefix-length>multicast-source-prefix-length
                </multicast-source-prefix-length>
    <multicast-group-count>multicast-group-count</multicast-group-count>
    <multicast-packet-count>multicast-packet-count</multicast-packet-count>
    <multicast-byte-count>multicast-byte-count</multicast-byte-count>
    <multicast-source-group>...</multicast-source-group>
  </multicast-source>
</multicast-usage-information>
```

Description No documentation is available yet.

Contents <multicast-byte-count>—No documentation is available yet.

<multicast-group-count>—No documentation is available yet.

<multicast-packet-count>—No documentation is available yet.

<multicast-source-address>—Source address.

<multicast-source-group>—No documentation is available yet.

<multicast-source-prefix-length>—Source prefix length.

<multicast-source-group>

Usage

```
<multicast-source>
  <multicast-source-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-packet-count>multicast-packet-count</multicast-packet-count>
    <multicast-byte-count>multicast-byte-count</multicast-byte-count>
  </multicast-source-group>
</multicast-source>
```

Description No documentation is available yet.

Contents <multicast-byte-count>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-packet-count>—No documentation is available yet.

<multicast-statistics>

Usage

```
<multicast-statistics-information>
  <multicast-statistics>
    <instance-name>instance-name</instance-name>
    <address-family>address-family</address-family>
    <mc-stats-interface>...</mc-stats-interface>
    <mc-resolves-no-mc-interface>mc-resolves-no-mc-interface
                </mc-resolves-no-mc-interface>
    <mc-global-resolves-no-route>mc-global-resolves-no-route
                </mc-global-resolves-no-route>
    <mc-notifies-no-mc-interface>mc-notifies-no-mc-interface
                </mc-notifies-no-mc-interface>
    <mc-notifies-no-route>mc-notifies-no-route</mc-notifies-no-route>
    <mc-mismatches-no-mc-interface>mc-mismatches-no-mc-interface
                </mc-mismatches-no-mc-interface>
    <mc-groups-no-mc-interface>mc-groups-no-mc-interface
                </mc-groups-no-mc-interface>
  </multicast-statistics>
</multicast-statistics-information>
```

Description No documentation is available yet.

Contents

<address-family>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<mc-global-resolves-no-route>—Number of resolve requests with no route to source.

<mc-groups-no-mc-interface>—Number of group memberships on non-multicast interfaces.

<mc-mismatches-no-mc-interface>—Number of interface mismatches on non-multicast interfaces.

<mc-notifies-no-mc-interface>—Number of routing notifications on non-multicast interfaces.

<mc-notifies-no-route>—Number of routing notifications with no route to source.

<mc-resolves-no-mc-interface>—Number of resolve requests on non-multicast interfaces.

<mc-stats-interface>—No documentation is available yet.

<multicast-statistics-information>

Usage
```
<rpc-reply>
  <multicast-statistics-information>
    <multicast-statistics>...</multicast-statistics>
  </multicast-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-statistics>—No documentation is available yet.

<multicast-tunnel>

Usage
```
<multicast-tunnels-information>
  <multicast-tunnel>
    <interface-name>interface-name</interface-name>
    <tunnel-local-address>tunnel-local-address</tunnel-local-address>
    <tunnel-remote-address>tunnel-remote-address</tunnel-remote-address>
    <tunnel-ttl>tunnel-ttl</tunnel-ttl>
  </multicast-tunnel>
</multicast-tunnels-information>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<tunnel-local-address>—No documentation is available yet.

<tunnel-remote-address>—No documentation is available yet.

<tunnel-ttl>—No documentation is available yet.

<multicast-tunnels-information>

Usage
```
<rpc-reply>
  <multicast-tunnels-information>
    <multicast-tunnel>...</multicast-tunnel>
  </multicast-tunnels-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-tunnel>—No documentation is available yet.

<multicast-usage-information>

Usage

```
<rpc-reply>
  <multicast-usage-information>
    <multicast-usage-no-group-prefix>multicast-usage-no-group-prefix
                </multicast-usage-no-group-prefix>
    <multicast-usage-strange-family>multicast-usage-strange-family
                </multicast-usage-strange-family>
    <multicast-usage-timed-out/>
    <multicast-group>...</multicast-group>
    <multicast-source>...</multicast-source>
  </multicast-usage-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <multicast-group>—No documentation is available yet.

<multicast-source>—No documentation is available yet.

<multicast-usage-no-group-prefix>—No documentation is available yet.

<multicast-usage-strange-family>—No documentation is available yet.

<multicast-usage-timed-out>—No documentation is available yet.

<mvpn-instance>

Usage

```
<mvpn-instance-information>
  <mvpn-instance>
    <instance-entry>...</instance-entry>
    <instance-entry-summary>...</instance-entry-summary>
  </mvpn-instance>
</mvpn-instance-information>
```

Description No documentation is available yet.

Contents <instance-entry>—No documentation is available yet.

<instance-entry-summary>—No documentation is available yet.

<mvpn-instance-information>

Usage
```
<rpc-reply>
  <mvpn-instance-information>
    <mvpn-instance>...</mvpn-instance>
    <instance>...</instance>
  </mvpn-instance-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <instance>—No documentation is available yet.

<mvpn-instance>—No documentation is available yet.

<neighbor>

Usage
```
<instance | instance-entry>
  <neighbor>
    <neighbor-entry>...</neighbor-entry>
  </neighbor>
</instance | instance-entry>
```

Description No documentation is available yet.

Contents <neighbor-entry>—No documentation is available yet.

<neighbor-entry>

Usage
```
<neighbor>
  <neighbor-entry>
    <neighbor-identifier>neighbor-identifier</neighbor-identifier>
    <provider-tunnel-id>provider-tunnel-id</provider-tunnel-id>
  </neighbor-entry>
</neighbor>
```

Description No documentation is available yet.

Contents <neighbor-identifier>—Neighbor IPv4 address.

<provider-tunnel-id>—Provider tunnel identifier.

<neighbor-summary>

Usage
```
<instance-entry-summary>
  <neighbor-summary>
    <neighbor-summary-count>neighbor-summary-count</neighbor-summary-count>
  </neighbor-summary>
</instance-entry-summary>
```

Description No documentation is available yet.

Contents <neighbor-summary-count>—Number of neighbors in the instance.

<next-hop-address>

Usage
```
<ospf-next-hop>
  <next-hop-address>
    <interface-address>interface-address</interface-address>
    <lsp-name>lsp-name</lsp-name>
  </next-hop-address>
</ospf-next-hop>
```

Description No documentation is available yet.

Contents <interface-address>—No documentation is available yet.

<lsp-name>—Tunneled into an RSVP LSP.

<next-hop-downstream-interface>

Usage
```
<iflist-next-hop>
  <next-hop-downstream-interface>
    <interface-name>interface-name</interface-name>
    <interface-index>interface-index</interface-index>
  </next-hop-downstream-interface>
</iflist-next-hop>
```

Description No documentation is available yet.

Contents <interface-index>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<next-hop-element>

Usage
```
<isis-spf-result | isis-backup-spf-result>
  <next-hop-element>
    <interface-name>interface-name</interface-name>
    <isis-next-hop-type>isis-next-hop-type</isis-next-hop-type>
    <isis-next-hop>isis-next-hop</isis-next-hop>
    <snpa>snpa</snpa>
  </next-hop-element>
</isis-spf-result | isis-backup-spf-result>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<isis-next-hop>—No documentation is available yet.

<isis-next-hop-type>—No documentation is available yet.

<snpa>—No documentation is available yet.

<next-hop-name>

Usage

```
<ospf-next-hop>
  <next-hop-name>
    <interface-name>interface-name</interface-name>
    <interface-link-name>interface-link-name</interface-link-name>
  </next-hop-name>
</ospf-next-hop>
```

Description No documentation is available yet.

Contents <interface-link-name>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<next-hops-family>

Usage

```
<multicast-next-hops-information | krt-iflist-nexthop-information>
  <next-hops-family>
    <address-family>address-family</address-family>
    <iflist-next-hop>...</iflist-next-hop>
  </next-hops-family>
</multicast-next-hops-information | krt-iflist-nexthop-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<iflist-next-hop>—No documentation is available yet.

<nh>

Usage

```
<rt-entry | protocol-nh | indirect-nexthop | flood-nh | krt-nexthop>
  <nh>
    <selected-next-hop/>
    <ext-int-type>ext-int-type</ext-int-type>
    <weight>weight</weight>
    <balance>balance</balance>
    <uflags>uflags</uflags>
    <filter>filter</filter>
    <via>via</via>
    <nh-local-interface>nh-local-interface</nh-local-interface>
    <nh-table-receive>nh-table-receive</nh-table-receive>
    <nh-table>nh-table</nh-table>
    <to>to</to>
    <lsp-name>lsp-name</lsp-name>
    <mpls-label>mpls-label</mpls-label>
    <nh-service>nh-service</nh-service>
    <nh-service-pkt-dist>nh-service-pkt-dist</nh-service-pkt-dist>
    <nh-service-app-data>nh-service-app-data</nh-service-app-data>
    <nh-address>nh-address</nh-address>
    <nh-index>nh-index</nh-index>
  </nh>
</rt-entry | protocol-nh | indirect-nexthop | flood-nh | krt-nexthop>
```

Description Next-hop gateway information.

Contents <balance>—Next-hop balance.

<ext-int-type>—Next-hop type of equal-external-internal multipath.

<filter>—Next-hop firewall filter.

<lsp-name>—Tunneled into an RSVP LSP.

<mpls-label>—Label of MPLS packet.

<nh-address>—Address of next hop.

<nh-index>—Next-hop index.

<nh-local-interface>—Destination is a local interface.

<nh-service>—Next-hop service.

<nh-service-app-data>—Multi services application specific data.

<nh-service-pkt-dist>—Multi services packet distribution type.

<nh-table>—Indirect pointing to another table.

<nh-table-receive>—Destination is a local address.

<selected-next-hop>—Present if this next hop is selected.

<to>—Neighbor address to which to send (next-hop address).

<uflags>—Next-hop uflags.

<via>—Reachable via a local interface.

<weight>—Next-hop weight.

<nlri-flags>

Usage

```
<nlri-information>
  <nlri-flags>
    <bgp-nlri-flag-explicit-null-for-all-routes/>
    <bgp-nlri-flag-explicit-null-for-connected-routes/>
    <bgp-nlri-flag-aggregate-label/>
    <bgp-nlri-flag-per-prefix-label/>
    <bgp-nlri-flag-per-group-label/>
    <bgp-nlri-flag-traffic-stats/>
    <bgp-nlri-flag-l2vpn-status-vector/>
    <bgp-nlri-flag-no-l2vpn-status-vector/>
  </nlri-flags>
</nlri-information>
```

Description No documentation is available yet.

Contents <bgp-nlri-flag-aggregate-label>—No documentation is available yet.

<bgp-nlri-flag-explicit-null-for-all-routes>—No documentation is available yet.

<bgp-nlri-flag-explicit-null-for-connected-routes>—No documentation is available yet.

<bgp-nlri-flag-l2vpn-status-vector>—No documentation is available yet.

<bgp-nlri-flag-no-l2vpn-status-vector>—No documentation is available yet.

<bgp-nlri-flag-per-group-label>—No documentation is available yet.

<bgp-nlri-flag-per-prefix-label>—No documentation is available yet.

<bgp-nlri-flag-traffic-stats>—No documentation is available yet.

<nlri-information>

Usage

```
<bgp-option-information>
  <nlri-information>
    <nlri-type>nlri-type</nlri-type>
    <nlri-flags>...</nlri-flags>
    <nlri-traffic-stats>...</nlri-traffic-stats>
    <nlri-flow-novalidate>nlri-flow-novalidate</nlri-flow-novalidate>
  </nlri-information>
</bgp-option-information>
```

Description No documentation is available yet.

Contents <nlri-flags>—No documentation is available yet.

<nlri-flow-novalidate>—Policy to accept flow routes without validation.

<nlri-traffic-stats>—No documentation is available yet.

<nlri-type>—Type of NLRI being limited.

<nlri-traffic-stats>

Usage

```
<nlri-information>
  <nlri-traffic-stats>
    <tracing-information>...</tracing-information>
    <traffic-stats-interval>traffic-stats-interval</traffic-stats-interval>
  </nlri-traffic-stats>
</nlri-information>
```

Description No documentation is available yet.

Contents <tracing-information>—No documentation is available yet.

<traffic-stats-interval>—No documentation is available yet.

<node>

Usage

```
<route-resolution-tree>
  <node>
    <node-prefix>node-prefix</node-prefix>
    <node-prefix-length>node-prefix-length</node-prefix-length>
    <originating-rib>originating-rib</originating-rib>
    <metric>metric</metric>
    <node-path-count>node-path-count</node-path-count>
    <forwarding-nh-count>forwarding-nh-count</forwarding-nh-count>
    <indirect-nh-count>indirect-nh-count</indirect-nh-count>
    <composite-nh-count>composite-nh-count</composite-nh-count>
    <protocol-nh>...</protocol-nh>
  </node>
</route-resolution-tree>
```

Description No documentation is available yet.

Contents <composite-nh-count>—Number of composite next hops.

<forwarding-nh-count>—Number of indirect path forwarding next hops.

<indirect-nh-count>—Number of indirect next hops.

<metric>—No documentation is available yet.

<node-path-count>—Number of paths for this node.

<node-prefix>—No documentation is available yet.

<node-prefix-length>—No documentation is available yet.

<originating-rib>—Routing table from which this route was learned.

<protocol-nh>—Protocol next hop.

<oam-state>

Usage

```
<mpls-lsp-path>
  <oam-state>
    <oam-bfd-session-state>oam-bfd-session-state</oam-bfd-session-state>
    <oam-lsp-ping-state>oam-lsp-ping-state</oam-lsp-ping-state>
  </oam-state>
</mpls-lsp-path>
```

Description OAM state information.

Contents <oam-bfd-session-state>—No documentation is available yet.

<oam-lsp-ping-state>—No documentation is available yet.

<operational-routing-instance-information>

Usage

```
<rpc-reply>
  <operational-routing-instance-information>
    <instance-name>instance-name</instance-name>
  </operational-routing-instance-information>
</rpc-reply>
```

Description Operational routing instances that can be passed to netapp commands.

Contents <instance-name>—No documentation is available yet.

<ospf-area-header>

Usage

```
<ospf-database-information>
  <ospf-area-header>
    <ospf-area>ospf-area</ospf-area>
  </ospf-area-header>
</ospf-database-information>
```

Description No documentation is available yet.

Contents <ospf-area>—Area ID.

<ospf-area-overview>

Usage

```
<ospf-overview>
  <ospf-area-overview>
    <ospf-area>ospf-area</ospf-area>
    <ospf-stub-type>ospf-stub-type</ospf-stub-type>
    <ospf-stub-cost>ospf-stub-cost</ospf-stub-cost>
    <ospf-virtual-transit/>
    <authentication-type>authentication-type</authentication-type>
    <ospf-abr-count>ospf-abr-count</ospf-abr-count>
    <ospf-asbr-count>ospf-asbr-count</ospf-asbr-count>
    <ospf-nbr-overview>...</ospf-nbr-overview>
    <ospf-dna-uncapable/>
    <ospf-area-dc-bit-clear-count>ospf-area-dc-bit-clear-count
            </ospf-area-dc-bit-clear-count>
    <ospf-area-indications-count>ospf-area-indications-count
            </ospf-area-indications-count>
    <ospf-area-self-indicating/>
    <ospf-link-dc-bit-clear-count>ospf-link-dc-bit-clear-count
            </ospf-link-dc-bit-clear-count>
  </ospf-area-overview>
</ospf-overview>
```

Description Overview information for an OSPF area.

Contents

<authentication-type>—Type of authentication.

<ospf-abr-count>—Number of area border routers.

<ospf-area>—Area ID.

<ospf-area-dc-bit-clear-count>—Number of area scope link-state advertisements received with DC bit clear.

<ospf-area-indications-count>—Number of indication link-state advertisements received.

<ospf-area-self-indicating>—Router generated an indication link-state advertisement.

<ospf-asbr-count>—Number of autonomous system boundary routers.

<ospf-dna-uncapable>—Not safe to generate DoNotAge LSAs.

<ospf-link-dc-bit-clear-count>—Number of link local scope link-state advertisements received with no DC bit clear.

<ospf-nbr-overview>—No documentation is available yet.

<ospf-stub-cost>—Cost of default route in stub area.

<ospf-stub-type>—Stub type of area.

<ospf-virtual-transit>—Area is transit for virtual links.

<ospf-database>

Usage

```
<ospf-database-information>
  <ospf-database>
    <lsa-type>lsa-type</lsa-type>
    <our-entry/>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router</advertising-router>
    <sequence-number>sequence-number</sequence-number>
    <age>age</age>
    <ospf-do-not-age/>
    <options>options</options>
    <checksum>checksum</checksum>
    <lsa-length>lsa-length</lsa-length>
    <ospf-router-lsa>...</ospf-router-lsa>
    <ospf-network-lsa>...</ospf-network-lsa>
    <ospf-opaque-area-lsa>...</ospf-opaque-area-lsa>
    <ospf-opaque-link-local-lsa>...</ospf-opaque-link-local-lsa>
    <ospf-summary-lsa>...</ospf-summary-lsa>
    <ospf-external-lsa>...</ospf-external-lsa>
    <ospf-database-extensive>...</ospf-database-extensive>
  </ospf-database>
</ospf-database-information>
```

Description No documentation is available yet.

Contents <advertising-router>—No documentation is available yet.

<age>—No documentation is available yet.

<checksum>—No documentation is available yet.

<lsa-id>—No documentation is available yet.

<lsa-length>—No documentation is available yet.

<lsa-type>—No documentation is available yet.

<options>—No documentation is available yet.

<ospf-database-extensive>—No documentation is available yet.

<ospf-do-not-age>—DoNotAge bit is set on the link-state advertisement received.

<ospf-external-lsa>—No documentation is available yet.

<ospf-network-lsa>—No documentation is available yet.

<ospf-opaque-area-lsa>—No documentation is available yet.

<ospf-opaque-link-local-lsa>—No documentation is available yet.

<ospf-router-lsa>—No documentation is available yet.

<ospf-summary-lsa>—No documentation is available yet.

<our-entry>—No documentation is available yet.

<sequence-number>—History event number.

<ospf-database-extensive>

Usage

```
<ospf-database | ospf3-database>
  <ospf-database-extensive>
    <generation-timer>generation-timer</generation-timer>
    <aging-timer>aging-timer</aging-timer>
    <installation-time>installation-time</installation-time>
    <expiration-time>expiration-time</expiration-time>
    <send-time>send-time</send-time>
    <lsa-changed-time>lsa-changed-time</lsa-changed-time>
    <lsa-change-count>lsa-change-count</lsa-change-count>
    <indication-lsa/>
    <database-entry-state>database-entry-state</database-entry-state>
    <database-telink-id>database-telink-id</database-telink-id>
    <standby-flood-status>standby-flood-status</standby-flood-status>
  </ospf-database-extensive>
</ospf-database | ospf3-database>
```

Description No documentation is available yet.

Contents <aging-timer>—No documentation is available yet.

<database-entry-state>—No documentation is available yet.

<database-telink-id>—No documentation is available yet.

<expiration-time>—No documentation is available yet.

<generation-timer>—No documentation is available yet.

<indication-lsa>—Indication link-state advertisement.

<installation-time>—No documentation is available yet.

<lsa-change-count>—Number of times link-state advertisement changed.

<lsa-changed-time>—Time elapsed since the link-state advertisement changed.

<send-time>—No documentation is available yet.

<standby-flood-status>—Flooding status to standby Routing Engine.

<ospf-database-information>

Usage

```
<rpc-reply>
  <ospf-database-information>
    <ospf-area-header>...</ospf-area-header>
    <ospf-intf-header>...</ospf-intf-header>
    <ospf-database>...</ospf-database>
    <ospf-database-summary>...</ospf-database-summary>
  </ospf-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-area-header>—No documentation is available yet.

<ospf-database>—No documentation is available yet.

<ospf-database-summary>—No documentation is available yet.

<ospf-intf-header>—No documentation is available yet.

<ospf-database-replication>

Usage

```
<ospf-database-replication-information | ospf3-database-replication-information>
  <ospf-database-replication>
    <lsa-type>lsa-type</lsa-type>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router</advertising-router>
    <sequence-number>sequence-number</sequence-number>
    <age>age</age>
    <ospf-do-not-age/>
    <ospf-synchronization-state>ospf-synchronization-state
                </ospf-synchronization-state>
    <ospf-route-table-index>ospf-route-table-index</ospf-route-table-index>
    <ospf-area>ospf-area</ospf-area>
    <ospf-router-id>ospf-router-id</ospf-router-id>
    <ospf-ifl-index>ospf-ifl-index</ospf-ifl-index>
    <interface-address>interface-address</interface-address>
    <installation-time>installation-time</installation-time>
    <ospf-unsync-reason>ospf-unsync-reason</ospf-unsync-reason>
  </ospf-database-replication>
</ospf-database-replication-information | ospf3-database-replication-information>
```

Description OSPF LSA replication information.

Contents <advertising-router>—No documentation is available yet.

<age>—No documentation is available yet.

<installation-time>—No documentation is available yet.

<interface-address>—No documentation is available yet.

<lsa-id>—No documentation is available yet.

<lsa-type>—No documentation is available yet.

<ospf-area>—Area ID.

<ospf-do-not-age>—DoNotAge bit is set on the link-state advertisement received.

<ospf-ifl-index>—Interface index.

<ospf-route-table-index>—Route table index.

<ospf-router-id>—OSPF router ID.

<ospf-synchronization-state>—Synchronization state of the replicated entry.

<ospf-unsync-reason>—No documentation is available yet.

<sequence-number>—History event number.

<ospf-database-replication-information>

Usage

```
<rpc-reply>
  <ospf-database-replication-information>
    <ospf-database-replication>...</ospf-database-replication>
  </ospf-database-replication-information>
</rpc-reply>
```

Description OSPFv2 LSA replication information.

Contents <ospf-database-replication>—OSPF LSA replication information.

<ospf-database-summary>

Usage

```
<ospf-database-information>
  <ospf-database-summary>
    <ospf-area>ospf-area</ospf-area>
    <ospf-intf>ospf-intf</ospf-intf>
    <ospf-lsa-count>ospf-lsa-count</ospf-lsa-count>
    <ospf-lsa-type>ospf-lsa-type</ospf-lsa-type>
  </ospf-database-summary>
</ospf-database-information>
```

Description No documentation is available yet.

Contents <ospf-area>—Area ID.

<ospf-intf>—Name of interface.

<ospf-lsa-count>—No documentation is available yet.

<ospf-lsa-type>—No documentation is available yet.

<ospf-errors>

Usage

```
<ospf-io-statistics | ospf-statistics>
  <ospf-errors>
    <runt-header-error>runt-header-error</runt-header-error>
    <short-packets-error>short-packets-error</short-packets-error>
    <bad-version-error>bad-version-error</bad-version-error>
    <truncated-packets-error>truncated-packets-error</truncated-packets-error>
    <checksum-error>checksum-error</checksum-error>
    <subnet-mismatch-error>subnet-mismatch-error</subnet-mismatch-error>
    <virtual-link-error>virtual-link-error</virtual-link-error>
    <area-mismatch-error>area-mismatch-error</area-mismatch-error>
    <authentication-mismatch-error>authentication-mismatch-error
            </authentication-mismatch-error>
    <authentication-failure-error>authentication-failure-error
            </authentication-failure-error>
    <bad-packettype-error>bad-packettype-error</bad-packettype-error>
    <netmask-mismatch-error>netmask-mismatch-error</netmask-mismatch-error>
    <hello-interval-mismatch-error>hello-interval-mismatch-error
            </hello-interval-mismatch-error>
    <dead-interval-mismatch-error>dead-interval-mismatch-error
            </dead-interval-mismatch-error>
    <stub-area-mismatch-error>stub-area-mismatch-error</stub-area-mismatch-error>
    <nssa-mismatch-error>nssa-mismatch-error</nssa-mismatch-error>
    <default-exclusion-mismatch-error>default-exclusion-mismatch-error
            </default-exclusion-mismatch-error>
    <mtu-mismatch-error>mtu-mismatch-error</mtu-mismatch-error>
    <hello-received-error>hello-received-error</hello-received-error>
    <no-interface-error>no-interface-error</no-interface-error>
    <no-router-id-error>no-router-id-error</no-router-id-error>
    <instance-id-mismatch-error>instance-id-mismatch-error
            </instance-id-mismatch-error>
    <lanp2p-cfgmismatch-error>lanp2p-cfgmismatch-error</lanp2p-cfgmismatch-error>
    <no-error/>
  </ospf-errors>
</ospf-io-statistics | ospf-statistics>
```

Description No documentation is available yet.

Contents <area-mismatch-error>—No documentation is available yet.

<authentication-failure-error>—No documentation is available yet.

<authentication-mismatch-error>—No documentation is available yet.

<bad-packettype-error>—No documentation is available yet.

<bad-version-error>—No documentation is available yet.

<checksum-error>—No documentation is available yet.

<dead-interval-mismatch-error>—No documentation is available yet.

<default-exclusion-mismatch-error>—No documentation is available yet.

<hello-interval-mismatch-error>—No documentation is available yet.

<hello-received-error>—No documentation is available yet.

<instance-id-mismatch-error>—No documentation is available yet.

<lanp2p-cfgmismatch-error>—No documentation is available yet.

<mtu-mismatch-error>—No documentation is available yet.

<netmask-mismatch-error>—No documentation is available yet.

<no-error>—No documentation is available yet.

<no-interface-error>—No documentation is available yet.

<no-router-id-error>—No documentation is available yet.

<nssa-mismatch-error>—No documentation is available yet.

<runt-header-error>—No documentation is available yet.

<short-packets-error>—No documentation is available yet.

<stub-area-mismatch-error>—No documentation is available yet.

<subnet-mismatch-error>—No documentation is available yet.

<truncated-packets-error>—No documentation is available yet.

<virtual-link-error>—No documentation is available yet.

<ospf-external-lsa>

Usage

```
<ospf-database>
  <ospf-external-lsa>
    <address-mask>address-mask</address-mask>
    <ospf-external-lsa-topology>...</ospf-external-lsa-topology>
  </ospf-external-lsa>
</ospf-database>
```

Description No documentation is available yet.

Contents <address-mask>—No documentation is available yet.

<ospf-external-lsa-topology>—OSPF topology specific information for an external LSA.

<ospf-external-lsa-topology>

Usage

```
<ospf-external-lsa>
  <ospf-external-lsa-topology>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-topology-id>ospf-topology-id</ospf-topology-id>
    <type-value>type-value</type-value>
    <ospf-topology-metric>ospf-topology-metric</ospf-topology-metric>
    <forward-address>forward-address</forward-address>
    <tag>tag</tag>
  </ospf-external-lsa-topology>
</ospf-external-lsa>
```

Description OSPF topology specific information for an external LSA.

Contents <forward-address>—No documentation is available yet.

<ospf-topology-id>—OSPF topology id.

<ospf-topology-metric>—OSPF topology specific metric.

<ospf-topology-name>—OSPF topology name.

<tag>—No documentation is available yet.

<type-value>—No documentation is available yet.

<ospf-instance-neighbor>

Usage

```
<ospf-neighbor-information-all>
  <ospf-instance-neighbor>
    <ospf-instance-name>ospf-instance-name</ospf-instance-name>
    <ospf-neighbor>...</ospf-neighbor>
  </ospf-instance-neighbor>
</ospf-neighbor-information-all>
```

Description Information about OSPF neighbors within this routing instance.

Contents <ospf-instance-name>—Name of OSPF instance.

<ospf-neighbor>—No documentation is available yet.

<ospf-interface>

Usage

```
<ospf-interface-information>
  <ospf-interface>
    <interface-name>interface-name</interface-name>
    <ospf-interface-state>ospf-interface-state</ospf-interface-state>
    <ospf-area>ospf-area</ospf-area>
    <dr-id>dr-id</dr-id>
    <bdr-id>bdr-id</bdr-id>
    <neighbor-count>neighbor-count</neighbor-count>
    <interface-type>interface-type</interface-type>
    <interface-address>interface-address</interface-address>
    <address-mask>address-mask</address-mask>
    <mtu>mtu</mtu>
    <interface-cost>interface-cost</interface-cost>
    <virtual-link-transit-area>virtual-link-transit-area
            </virtual-link-transit-area>
    <virtual-link-destination>virtual-link-destination</virtual-link-destination>
    <sham-link-local>sham-link-local</sham-link-local>
    <sham-link-remote>sham-link-remote</sham-link-remote>
    <dr-address>dr-address</dr-address>
    <bdr-address>bdr-address</bdr-address>
    <router-priority>router-priority</router-priority>
    <adj-count>adj-count</adj-count>
    <interface-secondary/>
    <interface-flood-reduction/>
    <passive>passive</passive>
    <hello-interval>hello-interval</hello-interval>
    <poll-interval>poll-interval</poll-interval>
    <dead-interval>dead-interval</dead-interval>
    <retransmit-interval>retransmit-interval</retransmit-interval>
    <ospf-stub-type>ospf-stub-type</ospf-stub-type>
    <ipsec-sa>ipsec-sa</ipsec-sa>
    <authentication-type>authentication-type</authentication-type>
    <ospf-interface-topology>...</ospf-interface-topology>
    <active-key-id>active-key-id</active-key-id>
    <active-key-start-time>active-key-start-time</active-key-start-time>
    <igp-ldp-sync-holdtime>igp-ldp-sync-holdtime</igp-ldp-sync-holdtime>
    <igp-ldp-sync-state>igp-ldp-sync-state</igp-ldp-sync-state>
    <igp-ldp-sync-last-change>igp-ldp-sync-last-change</igp-ldp-sync-last-change>
    <igp-ldp-sync-reason>igp-ldp-sync-reason</igp-ldp-sync-reason>
    <igp-ldp-sync-timeleft>igp-ldp-sync-timeleft</igp-ldp-sync-timeleft>
    <interface-flood-list-count>interface-flood-list-count
            </interface-flood-list-count>
    <flood-list-count>flood-list-count</flood-list-count>
    <lsa-list>lsa-list</lsa-list>
    <interface-description-list>interface-description-list
            </interface-description-list>
  </ospf-interface>
</ospf-interface-information>
```

Description No documentation is available yet.

Contents <active-key-id>—No documentation is available yet.

<active-key-start-time>—No documentation is available yet.

<address-mask>—No documentation is available yet.

<adj-count>—Count of fully adjacent neighbors.

<authentication-type>—Type of authentication.

<bdr-address>—IP address of BDR.

<bdr-id>—No documentation is available yet.

<dead-interval>—No documentation is available yet.

<dr-address>—IP address of DR.

<dr-id>—No documentation is available yet.

<flood-list-count>—No documentation is available yet.

<hello-interval>—Rate at which RSVP hellos are sent out. Default is 3 seconds.

<igp-ldp-sync-holdtime>—Length of time during which the maximum metric is advertised for an interface that is in the hold-down state because synchronization was lost between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-last-change>—Time since the state of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP) last changed.

<igp-ldp-sync-reason>—Reason for the change in the state of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-state>—State of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-timeleft>—Remaining amount of time the interface will remain in the hold-down state because synchronization was lost between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<interface-address>—No documentation is available yet.

<interface-cost>—Cost associated with this interface.

<interface-description-list>—No documentation is available yet.

<interface-flood-list-count>—No documentation is available yet.

<interface-flood-reduction>—Flood reduction is enabled.

<interface-name>—No documentation is available yet.

<interface-secondary>—OSPF interface is secondary.

<interface-type>—No documentation is available yet.

<ipsec-sa>—No documentation is available yet.

<lsa-list>—No documentation is available yet.

<mtu>—MTU along an interface.

<neighbor-count>—Number of neighbors on PIM interface.

<ospf-area>—Area ID.

<ospf-interface-state>—No documentation is available yet.

<ospf-interface-topology>—OSPF topology specific information for an interface.

<ospf-stub-type>—Stub type of area.

<passive>—No documentation is available yet.

<poll-interval>—No documentation is available yet.

<retransmit-interval>—No documentation is available yet.

<router-priority>—Router priority used in DR election on broadcast or NBMA interface.

<sham-link-local>—Sham link local end point.

<sham-link-remote>—Sham link remote end point.

<virtual-link-destination>—Virtual link destination address.

<virtual-link-transit-area>—Virtual link transit area.

<ospf-interface-information>

Usage

```
<rpc-reply>
  <ospf-interface-information>
    <ospf-interface>...</ospf-interface>
  </ospf-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-interface>—No documentation is available yet.

<ospf-interface-replication>

Usage

```
<ospf-interface-replication-information | ospf3-interface-replication-information>
  <ospf-interface-replication>
    <interface-name>interface-name</interface-name>
    <interface-address>interface-address</interface-address>
    <ospf-area>ospf-area</ospf-area>
    <ospf-synchronization-state>ospf-synchronization-state
                </ospf-synchronization-state>
    <ospf-ifl-index>ospf-ifl-index</ospf-ifl-index>
    <ospf-router-id>ospf-router-id</ospf-router-id>
    <ospf-route-table-index>ospf-route-table-index</ospf-route-table-index>
    <ospf-internal-index>ospf-internal-index</ospf-internal-index>
    <ospf-sync-dr-id>ospf-sync-dr-id</ospf-sync-dr-id>
    <ospf-sync-bdr-id>ospf-sync-bdr-id</ospf-sync-bdr-id>
    <dr-address>dr-address</dr-address>
    <bdr-address>bdr-address</bdr-address>
    <ospf-sync-dr-status>ospf-sync-dr-status</ospf-sync-dr-status>
    <ospf-sync-bdr-status>ospf-sync-bdr-status</ospf-sync-bdr-status>
    <ospf-unsync-reason>ospf-unsync-reason</ospf-unsync-reason>
  </ospf-interface-replication>
</ospf-interface-replication-information | ospf3-interface-replication-information>
```

Description OSPF interface replication information.

Contents <bdr-address>—IP address of BDR.

<dr-address>—IP address of DR.

<interface-address>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<ospf-area>—Area ID.

<ospf-ifl-index>—Interface index.

<ospf-internal-index>—Interface internal index.

<ospf-route-table-index>—Route table index.

<ospf-router-id>—OSPF router ID.

<ospf-sync-bdr-id>—Backup designated router ID.

<ospf-sync-bdr-status>—Backup designated router status.

<ospf-sync-dr-id>—Designated router ID.

<ospf-sync-dr-status>—Designated router status.

<ospf-synchronization-state>—Synchronization state of the replicated entry.

<ospf-unsync-reason>—No documentation is available yet.

<ospf-interface-replication-information>

Usage

```
<rpc-reply>
  <ospf-interface-replication-information>
    <ospf-interface-replication>...</ospf-interface-replication>
  </ospf-interface-replication-information>
</rpc-reply>
```

Description OSPFv2 interface replication information.

Contents <ospf-interface-replication>—OSPF interface replication information.

<ospf-interface-topology>

Usage

```
<ospf-interface>
  <ospf-interface-topology>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-topology-id>ospf-topology-id</ospf-topology-id>
    <ospf-topology-passive/>
    <ospf-topology-disabled/>
    <ospf-topology-down/>
    <ospf-topology-metric>ospf-topology-metric</ospf-topology-metric>
  </ospf-interface-topology>
</ospf-interface>
```

Description OSPF topology specific information for an interface.

Contents <ospf-topology-disabled>—OSPF topology is disabled.

<ospf-topology-down>—OSPF topology is down.

<ospf-topology-id>—OSPF topology id.

<ospf-topology-metric>—OSPF topology specific metric.

<ospf-topology-name>—OSPF topology name.

<ospf-topology-passive>—OSPF topology is passive.

<ospf-intf-header>

Usage

```
<ospf-database-information>
  <ospf-intf-header>
    <ospf-intf>ospf-intf</ospf-intf>
    <ospf-area>ospf-area</ospf-area>
  </ospf-intf-header>
</ospf-database-information>
```

Description No documentation is available yet.

Contents <ospf-area>—Area ID.

<ospf-intf>—Name of interface.

<ospf-io-statistics>

Usage

```
<ospf-io-statistics-information | ospf3-io-statistics-information>
  <ospf-io-statistics>
    <packets-read>packets-read</packets-read>
    <average-per-run>average-per-run</average-per-run>
    <max-run>max-run</max-run>
    <ospf-errors>...</ospf-errors>
  </ospf-io-statistics>
</ospf-io-statistics-information | ospf3-io-statistics-information>
```

Description No documentation is available yet.

Contents <average-per-run>—No documentation is available yet.

<max-run>—No documentation is available yet.

<ospf-errors>—No documentation is available yet.

<packets-read>—No documentation is available yet.

<ospf-io-statistics-information>

Usage

```
<rpc-reply>
  <ospf-io-statistics-information>
    <ospf-io-statistics>...</ospf-io-statistics>
  </ospf-io-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-io-statistics>—No documentation is available yet.

<ospf-link>

Usage

```
<ospf-router-lsa>
  <ospf-link>
    <link-id>link-id</link-id>
    <link-data>link-data</link-data>
    <link-type-name>link-type-name</link-type-name>
    <link-type-value>link-type-value</link-type-value>
    <ospf-topology-count>ospf-topology-count</ospf-topology-count>
    <metric>metric</metric>
    <ospf-router-link-topology>...</ospf-router-link-topology>
  </ospf-link>
</ospf-router-lsa>
```

Description No documentation is available yet.

Contents <link-data>—No documentation is available yet.

<link-id>—No documentation is available yet.

<link-type-name>—No documentation is available yet.

<link-type-value>—No documentation is available yet.

<metric>—No documentation is available yet.

<ospf-router-link-topology>—OSPF topology specific information for a router link.

<ospf-topology-count>—Number of topologies advertised for this link.

<ospf-link-local-grace-lsa>

Usage

```
<ospf-opaque-link-local-lsa>
  <ospf-link-local-grace-lsa>
    <tlv-grace-type-name>tlv-grace-type-name</tlv-grace-type-name>
    <tlv-grace-value>tlv-grace-value</tlv-grace-value>
  </ospf-link-local-grace-lsa>
</ospf-opaque-link-local-lsa>
```

Description No documentation is available yet.

Contents <tlv-grace-type-name>—No documentation is available yet.

<tlv-grace-value>—No documentation is available yet.

<ospf-link-local-te-lsa>

Usage

```
<ospf-opaque-link-local-lsa>
  <ospf-link-local-te-lsa>
    <ospf-link-local-te-tlv>...</ospf-link-local-te-tlv>
    <ospf-link-local-te-subtlv>...</ospf-link-local-te-subtlv>
  </ospf-link-local-te-lsa>
</ospf-opaque-link-local-lsa>
```

Description No documentation is available yet.

Contents <ospf-link-local-te-subtlv>—No documentation is available yet.

<ospf-link-local-te-tlv>—No documentation is available yet.

<ospf-link-local-te-subtlv>

Usage

```
<ospf-link-local-te-lsa>
  <ospf-link-local-te-subtlv>
    <link-local-te-tlv-type-name>link-local-te-tlv-type-name
                  </link-local-te-tlv-type-name>
    <tlv-type-value>tlv-type-value</tlv-type-value>
    <tlv-length>tlv-length</tlv-length>
    <bytes-left>bytes-left</bytes-left>
    <formatted-tlv-data>formatted-tlv-data</formatted-tlv-data>
  </ospf-link-local-te-subtlv>
</ospf-link-local-te-lsa>
```

Description No documentation is available yet.

Contents <bytes-left>—No documentation is available yet.

<formatted-tlv-data>—No documentation is available yet.

<link-local-te-tlv-type-name>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<tlv-type-value>—No documentation is available yet.

<ospf-link-local-te-tlv>

Usage
```
<ospf-link-local-te-lsa>
  <ospf-link-local-te-tlv>
    <link-local-te-tlv-type-name>link-local-te-tlv-type-name
                    </link-local-te-tlv-type-name>
    <tlv-type-value>tlv-type-value</tlv-type-value>
    <tlv-length>tlv-length</tlv-length>
    <bytes-left>bytes-left</bytes-left>
    <formatted-tlv-data>formatted-tlv-data</formatted-tlv-data>
  </ospf-link-local-te-tlv>
</ospf-link-local-te-lsa>
```

Description No documentation is available yet.

Contents <bytes-left>—No documentation is available yet.

<formatted-tlv-data>—No documentation is available yet.

<link-local-te-tlv-type-name>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<tlv-type-value>—No documentation is available yet.

<ospf-log-events>

Usage
```
<ospf-topology-log | ospf3-log-information>
  <ospf-log-events>
    <log-element>...</log-element>
    <number-events>number-events</number-events>
  </ospf-log-events>
</ospf-topology-log | ospf3-log-information>
```

Description No documentation is available yet.

Contents <log-element>—No documentation is available yet.

<number-events>—No documentation is available yet.

<ospf-log-information>

Usage
```
<rpc-reply>
  <ospf-log-information>
    <ospf-topology-log>...</ospf-topology-log>
  </ospf-log-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-topology-log>—OSPF topology specific SPF log information.

<ospf-log-instance>

Usage
```
<ospf-topology-log | ospf3-log-information>
  <ospf-log-instance>
    <log-element>...</log-element>
  </ospf-log-instance>
</ospf-topology-log | ospf3-log-information>
```

Description No documentation is available yet.

Contents <log-element>—No documentation is available yet.

<ospf-log-maximum-length>

Usage
```
<ospf-topology-log | ospf3-log-information>
  <ospf-log-maximum-length>
    <log-element>...</log-element>
  </ospf-log-maximum-length>
</ospf-topology-log | ospf3-log-information>
```

Description No documentation is available yet.

Contents <log-element>—No documentation is available yet.

<ospf-nbr-overview>

Usage
```
<ospf-area-overview>
  <ospf-nbr-overview>
    <ospf-nbr-up-count>ospf-nbr-up-count</ospf-nbr-up-count>
  </ospf-nbr-overview>
</ospf-area-overview>
```

Description No documentation is available yet.

Contents <ospf-nbr-up-count>—Number of neighbors in full state.

<ospf-neighbor>

Usage

```
<ospf-neighbor-information | ospf-instance-neighbor>
  <ospf-neighbor>
    <neighbor-address>neighbor-address</neighbor-address>
    <interface-name>interface-name</interface-name>
    <ospf-neighbor-state>ospf-neighbor-state</ospf-neighbor-state>
    <neighbor-id>neighbor-id</neighbor-id>
    <neighbor-priority>neighbor-priority</neighbor-priority>
    <activity-timer>activity-timer</activity-timer>
    <ospf-area>ospf-area</ospf-area>
    <options>options</options>
    <neighbor-secondary/>
    <dr-address>dr-address</dr-address>
    <bdr-address>bdr-address</bdr-address>
    <neighbor-up-time>neighbor-up-time</neighbor-up-time>
    <neighbor-adjacency-time>neighbor-adjacency-time</neighbor-adjacency-time>
    <neighbor-suppress-hello>neighbor-suppress-hello</neighbor-suppress-hello>
    <master-slave>master-slave</master-slave>
    <sequence-number>sequence-number</sequence-number>
    <dbd-retransmit-time>dbd-retransmit-time</dbd-retransmit-time>
    <lsreq-retransmit-time>lsreq-retransmit-time</lsreq-retransmit-time>
    <lsreq-enqueued/>
    <lsreq-active/>
    <lsa-list>lsa-list</lsa-list>
    <ospf-neighbor-topology>...</ospf-neighbor-topology>
  </ospf-neighbor>
</ospf-neighbor-information | ospf-instance-neighbor>
```

Description No documentation is available yet.

Contents

<activity-timer>—No documentation is available yet.

<bdr-address>—IP address of BDR.

<dbd-retransmit-time>—Seconds until DBD is retransmitted.

<dr-address>—IP address of DR.

<interface-name>—No documentation is available yet.

<lsa-list>—No documentation is available yet.

<lsreq-active>—No documentation is available yet.

<lsreq-enqueued>—No documentation is available yet.

<lsreq-retransmit-time>—Seconds until LSREQ is retransmitted.

<master-slave>—No documentation is available yet.

<neighbor-address>—IP address of this neighbor.

<neighbor-adjacency-time>—Time when neighbor became adjacent.

<neighbor-id>—No documentation is available yet.

<neighbor-priority>—No documentation is available yet.

<neighbor-secondary>—OSPF neighbor is on secondary interface.

<neighbor-suppress-hello>—Time when neighbor suppressed hellos.

<neighbor-up-time>—Time when neighbor came up.

<options>—No documentation is available yet.

<ospf-area>—Area ID.

<ospf-neighbor-state>—No documentation is available yet.

<ospf-neighbor-topology>—OSPF topology specific neighbor information.

<sequence-number>—History event number.

<ospf-neighbor-information>

Usage
```
<rpc-reply>
  <ospf-neighbor-information>
    <ospf-neighbor>...</ospf-neighbor>
  </ospf-neighbor-information>
</rpc-reply>
```

Description Information about OSPF neighbors in a routing instance.

Contents <ospf-neighbor>—No documentation is available yet.

<ospf-neighbor-information-all>

Usage
```
<rpc-reply>
  <ospf-neighbor-information-all>
    <ospf-instance-neighbor>...</ospf-instance-neighbor>
  </ospf-neighbor-information-all>
</rpc-reply>
```

Description Information about OSPF neighbors in all routing instances.

Contents <ospf-instance-neighbor>—Information about OSPF neighbors within this routing instance.

<ospf-neighbor-replication>

Usage

```
<ospf-neighbor-replication-information | ospf3-neighbor-replication-information>
  <ospf-neighbor-replication>
    <interface-name>interface-name</interface-name>
    <ospf-area>ospf-area</ospf-area>
    <neighbor-id>neighbor-id</neighbor-id>
    <ospf-synchronization-state>ospf-synchronization-state
                </ospf-synchronization-state>
    <ospf-neighbor-state>ospf-neighbor-state</ospf-neighbor-state>
    <ospf-ifl-index>ospf-ifl-index</ospf-ifl-index>
    <ospf-route-table-index>ospf-route-table-index</ospf-route-table-index>
    <ospf-unsync-reason>ospf-unsync-reason</ospf-unsync-reason>
  </ospf-neighbor-replication>
</ospf-neighbor-replication-information | ospf3-neighbor-replication-information>
```

Description OSPF neighbor replication information.

Contents <interface-name>—No documentation is available yet.

<neighbor-id>—No documentation is available yet.

<ospf-area>—Area ID.

<ospf-ifl-index>—Interface index.

<ospf-neighbor-state>—No documentation is available yet.

<ospf-route-table-index>—Route table index.

<ospf-synchronization-state>—Synchronization state of the replicated entry.

<ospf-unsync-reason>—No documentation is available yet.

<ospf-neighbor-replication-information>

Usage

```
<rpc-reply>
  <ospf-neighbor-replication-information>
    <ospf-neighbor-replication>...</ospf-neighbor-replication>
  </ospf-neighbor-replication-information>
</rpc-reply>
```

Description OSPFv2 neighbor replication information.

Contents <ospf-neighbor-replication>—OSPF neighbor replication information.

<ospf-neighbor-topology>

Usage
```
<ospf-neighbor>
  <ospf-neighbor-topology>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-topology-id>ospf-topology-id</ospf-topology-id>
    <ospf-neighbor-topology-state>ospf-neighbor-topology-state
                </ospf-neighbor-topology-state>
  </ospf-neighbor-topology>
</ospf-neighbor>
```

Description OSPF topology specific neighbor information.

Contents <ospf-neighbor-topology-state>—State of the neighbor in a topology.

<ospf-topology-id>—OSPF topology id.

<ospf-topology-name>—OSPF topology name.

<ospf-network-lsa>

Usage
```
<ospf-database>
  <ospf-network-lsa>
    <address-mask>address-mask</address-mask>
    <attached-router>attached-router</attached-router>
  </ospf-network-lsa>
</ospf-database>
```

Description No documentation is available yet.

Contents <address-mask>—No documentation is available yet.

<attached-router>—No documentation is available yet.

<ospf-next-hop>

Usage
```
<ospf-route-entry | ospf3-route-entry>
  <ospf-next-hop>
    <next-hop-name>...</next-hop-name>
    <next-hop-address>...</next-hop-address>
  </ospf-next-hop>
</ospf-route-entry | ospf3-route-entry>
```

Description No documentation is available yet.

Contents <next-hop-address>—No documentation is available yet.

<next-hop-name>—No documentation is available yet.

<ospf-opaque-area-lsa>

Usage

```
<ospf-database>
  <ospf-opaque-area-lsa>
    <tlv-block>...</tlv-block>
    <te-subtlv>...</te-subtlv>
  </ospf-opaque-area-lsa>
</ospf-database>
```

Description No documentation is available yet.

Contents <te-subtlv>—No documentation is available yet.

<tlv-block>—No documentation is available yet.

<ospf-opaque-link-local-lsa>

Usage

```
<ospf-database | ospf3-database>
  <ospf-opaque-link-local-lsa>
    <ospf-link-local-grace-lsa>...</ospf-link-local-grace-lsa>
    <ospf-link-local-te-lsa>...</ospf-link-local-te-lsa>
  </ospf-opaque-link-local-lsa>
</ospf-database | ospf3-database>
```

Description No documentation is available yet.

Contents <ospf-link-local-grace-lsa>—No documentation is available yet.

<ospf-link-local-te-lsa>—No documentation is available yet.

<ospf-overview>

Usage

```
<ospf-overview-information | ospf3-overview-information>
  <ospf-overview>
    <instance-name>instance-name</instance-name>
    <ospf-router-id>ospf-router-id</ospf-router-id>
    <ospf-route-table-index>ospf-route-table-index</ospf-route-table-index>
    <ospf-configured-overload/>
    <ospf-configured-overload-remaining-time>ospf-configured-overload-remaining-time
            </ospf-configured-overload-remaining-time>
    <ospf-abr/>
    <ospf-asbr/>
    <ospf-nssa-router/>
    <ospf-lsa-refresh-time>ospf-lsa-refresh-time</ospf-lsa-refresh-time>
    <ospf-traffic-engineering/>
    <ospf-restart>ospf-restart</ospf-restart>
    <ospf-restart-enabled>ospf-restart-enabled</ospf-restart-enabled>
    <ospf-restart-duration>ospf-restart-duration</ospf-restart-duration>
    <ospf-restart-grace-period>ospf-restart-grace-period
            </ospf-restart-grace-period>
    <ospf-restart-helper-mode>ospf-restart-helper-mode</ospf-restart-helper-mode>
    <no-rfc-1583/>
    <ospf-dna-uncapable/>
    <ospf-as-dc-bit-clear-count>ospf-as-dc-bit-clear-count
            </ospf-as-dc-bit-clear-count>
    <ospf-area-dc-bit-clear-count>ospf-area-dc-bit-clear-count
            </ospf-area-dc-bit-clear-count>
    <ospf-area-indications-count>ospf-area-indications-count
            </ospf-area-indications-count>
    <ospf-link-dc-bit-clear-count>ospf-link-dc-bit-clear-count
            </ospf-link-dc-bit-clear-count>
    <tracing-information>...</tracing-information>
    <ospf-area-overview>...</ospf-area-overview>
    <ospf-topology-overview>...</ospf-topology-overview>
  </ospf-overview>
</ospf-overview-information | ospf3-overview-information>
```

Description Overview information for an OSPF instance.

Contents <instance-name>—No documentation is available yet.

<no-rfc-1583>—RFC1583 compatibility is disabled.

<ospf-abr>—Router is an area border router.

<ospf-area-dc-bit-clear-count>—Number of area scope link-state advertisements received with DC bit clear.

<ospf-area-indications-count>—Number of indication link-state advertisements received.

<ospf-area-overview>—Overview information for an OSPF area.

<ospf-as-dc-bit-clear-count>—Number of AS scope link-state advertisements received with DC bit clear.

<ospf-asbr>—Router is an autonomous system boundary router.

<ospf-configured-overload>—Instance is configured to be in overload.

<ospf-configured-overload-remaining-time>—Time remaining on configured overload timeout.

<ospf-dna-uncapable>—Not safe to generate DoNotAge LSAs.

<ospf-link-dc-bit-clear-count>—Number of link local scope link-state advertisements received with no DC bit clear.

<ospf-lsa-refresh-time>—Refresh period for link-state advertisement (in minutes).

<ospf-nssa-router>—Router is a not-so-stubby area router.

<ospf-restart>—OSPF restart parameters.

<ospf-restart-duration>—Duration of OSPF restart (seconds).

<ospf-restart-enabled>—OSPF restart mode.

<ospf-restart-grace-period>—Grace period for OSPF restart (seconds).

<ospf-restart-helper-mode>—OSPF helper mode.

<ospf-route-table-index>—Route table index.

<ospf-router-id>—OSPF router ID.

<ospf-topology-overview>—OSPF topology specific overview information.

<ospf-traffic-engineering>—Traffic engineering is enabled.

<tracing-information>—No documentation is available yet.

<ospf-overview-information>

Usage

```
<rpc-reply>
  <ospf-overview-information>
    <ospf-overview>...</ospf-overview>
  </ospf-overview-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-overview>—Overview information for an OSPF instance.

<ospf-route>

Usage
```
<ospf-topology-route-table>
  <ospf-route>
    <ospf-route-entry>...</ospf-route-entry>
  </ospf-route>
</ospf-topology-route-table>
```

Description No documentation is available yet.

Contents <ospf-route-entry>—No documentation is available yet.

<ospf-route-entry>

Usage

```
<ospf-route>
  <ospf-route-entry>
    <address-prefix>address-prefix</address-prefix>
    <route-path-type>route-path-type</route-path-type>
    <route-type>route-type</route-type>
    <next-hop-type>next-hop-type</next-hop-type>
    <interface-cost>interface-cost</interface-cost>
    <ospf-next-hop>...</ospf-next-hop>
    <ospf-area>ospf-area</ospf-area>
    <optional-capability>optional-capability</optional-capability>
    <route-origin>route-origin</route-origin>
    <route-priority>route-priority</route-priority>
    <type7/>
    <pbit/>
    <forward-nz/>
  </ospf-route-entry>
</ospf-route>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<forward-nz>—No documentation is available yet.

<interface-cost>—Cost associated with this interface.

<next-hop-type>—No documentation is available yet.

<optional-capability>—VEB bits received in the router LSA.

<ospf-area>—Area ID.

<ospf-next-hop>—No documentation is available yet.

<pbit>—No documentation is available yet.

<route-origin>—No documentation is available yet.

<route-path-type>—No documentation is available yet.

<route-priority>—No documentation is available yet.

<route-type>—No documentation is available yet.

<type7>—No documentation is available yet.

<ospf-route-information>

Usage
```
<rpc-reply>
  <ospf-route-information>
    <ospf-topology-route-table>...</ospf-topology-route-table>
  </ospf-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-topology-route-table>—OSPF topology specific routing table.

<ospf-router-link-topology>

Usage
```
<ospf-link>
  <ospf-router-link-topology>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-topology-id>ospf-topology-id</ospf-topology-id>
    <ospf-topology-metric>ospf-topology-metric</ospf-topology-metric>
  </ospf-router-link-topology>
</ospf-link>
```

Description OSPF topology specific information for a router link.

Contents <ospf-topology-id>—OSPF topology id.

<ospf-topology-metric>—OSPF topology specific metric.

<ospf-topology-name>—OSPF topology name.

<ospf-router-lsa>

Usage
```
<ospf-database>
  <ospf-router-lsa>
    <bits>bits</bits>
    <link-count>link-count</link-count>
    <ospf-link>...</ospf-link>
  </ospf-router-lsa>
</ospf-database>
```

Description No documentation is available yet.

Contents <bits>—No documentation is available yet.

<link-count>—No documentation is available yet.

<ospf-link>—No documentation is available yet.

<ospf-statistics>

Usage

```
<ospf-statistics-information | ospf3-statistics-information>
  <ospf-statistics>
    <packet-statistics>...</packet-statistics>
    <dbds-retransmit>dbds-retransmit</dbds-retransmit>

<dbds-retransmit-5seconds>dbds-retransmit-5seconds</dbds-retransmit-5seconds>
    <lsas-flooded>lsas-flooded</lsas-flooded>
    <lsas-flooded-5seconds>lsas-flooded-5seconds</lsas-flooded-5seconds>
    <lsas-high-prio-flooded>lsas-high-prio-flooded</lsas-high-prio-flooded>
    <lsas-high-prio-flooded-5seconds>lsas-high-prio-flooded-5seconds
                </lsas-high-prio-flooded-5seconds>
    <lsas-retransmit>lsas-retransmit</lsas-retransmit>
    <lsas-retransmit-5seconds>lsas-retransmit-5seconds</lsas-retransmit-5seconds>
    <lsas-nbr-transmit>lsas-nbr-transmit</lsas-nbr-transmit>
    <lsas-nbr-transmit-5seconds>lsas-nbr-transmit-5seconds
                </lsas-nbr-transmit-5seconds>
    <lsas-requested>lsas-requested</lsas-requested>
    <lsas-requested-5seconds>lsas-requested-5seconds</lsas-requested-5seconds>
    <lsas-acknowledged>lsas-acknowledged</lsas-acknowledged>
    <lsas-acknowledged-5seconds>lsas-acknowledged-5seconds
                </lsas-acknowledged-5seconds>
    <flood-queue-depth>flood-queue-depth</flood-queue-depth>
    <total-retransmits>total-retransmits</total-retransmits>

<total-database-summaries>total-database-summaries</total-database-summaries>
    <total-linkstate-request>total-linkstate-request</total-linkstate-request>
    <ospf-errors>...</ospf-errors>
  </ospf-statistics>
</ospf-statistics-information | ospf3-statistics-information>
```

Description No documentation is available yet.

Contents <dbds-retransmit>—No documentation is available yet.

<dbds-retransmit-5seconds>—No documentation is available yet.

<flood-queue-depth>—No documentation is available yet.

<lsas-acknowledged>—No documentation is available yet.

<lsas-acknowledged-5seconds>—No documentation is available yet.

<lsas-flooded>—No documentation is available yet.

<lsas-flooded-5seconds>—No documentation is available yet.

<lsas-high-prio-flooded>—No documentation is available yet.

<lsas-high-prio-flooded-5seconds>—No documentation is available yet.

<lsas-nbr-transmit>—No documentation is available yet.

<lsas-nbr-transmit-5seconds>—No documentation is available yet.

<lsas-requested>—No documentation is available yet.

<lsas-requested-5seconds>—No documentation is available yet.

<lsas-retransmit>—No documentation is available yet.

<lsas-retransmit-5seconds>—No documentation is available yet.

<ospf-errors>—No documentation is available yet.

<packet-statistics>—No documentation is available yet.

<total-database-summaries>—No documentation is available yet.

<total-linkstate-request>—No documentation is available yet.

<total-retransmits>—No documentation is available yet.

<ospf-statistics-information>

Usage

```
<rpc-reply>
  <ospf-statistics-information>
    <ospf-statistics>...</ospf-statistics>
  </ospf-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-statistics>—No documentation is available yet.

<ospf-summary-lsa>

Usage

```
<ospf-database>
  <ospf-summary-lsa>
    <address-mask>address-mask</address-mask>
    <ospf-summary-lsa-topology>...</ospf-summary-lsa-topology>
  </ospf-summary-lsa>
</ospf-database>
```

Description No documentation is available yet.

Contents <address-mask>—No documentation is available yet.

<ospf-summary-lsa-topology>—OSPF topology specific information for a summary LSA.

<ospf-summary-lsa-topology>

Usage

```
<ospf-summary-lsa>
  <ospf-summary-lsa-topology>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-topology-id>ospf-topology-id</ospf-topology-id>
    <ospf-topology-metric>ospf-topology-metric</ospf-topology-metric>
  </ospf-summary-lsa-topology>
</ospf-summary-lsa>
```

Description OSPF topology specific information for a summary LSA.

Contents <ospf-topology-id>—OSPF topology id.

<ospf-topology-metric>—OSPF topology specific metric.

<ospf-topology-name>—OSPF topology name.

<ospf-topology-log>

Usage

```
<ospf-log-information>
  <ospf-topology-log>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-log-instance>...</ospf-log-instance>
    <ospf-log-maximum-length>...</ospf-log-maximum-length>
    <ospf-log-events>...</ospf-log-events>
  </ospf-topology-log>
</ospf-log-information>
```

Description OSPF topology specific SPF log information.

Contents <ospf-log-events>—No documentation is available yet.

<ospf-log-instance>—No documentation is available yet.

<ospf-log-maximum-length>—No documentation is available yet.

<ospf-topology-name>—OSPF topology name.

<ospf-topology-overview>

Usage

```
<ospf-overview>
  <ospf-topology-overview>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-topology-id>ospf-topology-id</ospf-topology-id>
    <ospf-topology-configured-overload/>
    <ospf-topology-dynamic-overload/>
    <ospf-prefix-export-count>ospf-prefix-export-count</ospf-prefix-export-count>
    <ospf-prefix-export-limit>ospf-prefix-export-limit</ospf-prefix-export-limit>
    <ospf-full-spf-count>ospf-full-spf-count</ospf-full-spf-count>
    <ospf-spf-delay>ospf-spf-delay</ospf-spf-delay>
    <ospf-spf-holddown>ospf-spf-holddown</ospf-spf-holddown>
    <ospf-spf-rapid-runs>ospf-spf-rapid-runs</ospf-spf-rapid-runs>
    <ospf-te-shortcuts/>
  </ospf-topology-overview>
</ospf-overview>
```

Description OSPF topology specific overview information.

Contents <ospf-full-spf-count>—Number of full SPF calculations.

<ospf-prefix-export-count>—Number of prefixes exported into the topology.

<ospf-prefix-export-limit>—Number of prefixes we are allowed to exported into the topology.

<ospf-spf-delay>—Delay before performing consecutive SPF calculations.

<ospf-spf-holddown>—Time to hold down before running an SPF.

<ospf-spf-rapid-runs>—Number of rapid SPF runs before SPF holddown.

<ospf-te-shortcuts>—Traffic engineering shortcuts are enabled.

<ospf-topology-configured-overload>—Topology is configured to be in overload.

<ospf-topology-dynamic-overload>—Topology is in dynamic overload i.e. prefix limit was exceeded.

<ospf-topology-id>—OSPF topology id.

<ospf-topology-name>—OSPF topology name.

<ospf-topology-route-table>

Usage

```
<ospf-route-information>
  <ospf-topology-route-table>
    <ospf-topology-name>ospf-topology-name</ospf-topology-name>
    <ospf-route>...</ospf-route>
  </ospf-topology-route-table>
</ospf-route-information>
```

Description OSPF topology specific routing table.

Contents <ospf-route>—No documentation is available yet.

<ospf-topology-name>—OSPF topology name.

<ospf3-area-header>

Usage

```
<ospf3-database-information>
  <ospf3-area-header>
    <ospf-area>ospf-area</ospf-area>
  </ospf3-area-header>
</ospf3-database-information>
```

Description No documentation is available yet.

Contents <ospf-area>—Area ID.

<ospf3-database>

Usage

```
<ospf3-database-information>
  <ospf3-database>
    <lsa-type>lsa-type</lsa-type>
    <our-entry/>
    <lsa-id>lsa-id</lsa-id>
    <advertising-router>advertising-router</advertising-router>
    <sequence-number>sequence-number</sequence-number>
    <age>age</age>
    <ospf-do-not-age/>
    <checksum>checksum</checksum>
    <lsa-length>lsa-length</lsa-length>
    <ospf3-router-lsa>...</ospf3-router-lsa>
    <ospf3-network-lsa>...</ospf3-network-lsa>
    <ospf3-inter-area-prefix-lsa>...</ospf3-inter-area-prefix-lsa>
    <ospf3-inter-area-router-lsa>...</ospf3-inter-area-router-lsa>
    <ospf3-external-lsa>...</ospf3-external-lsa>
    <ospf3-link-lsa>...</ospf3-link-lsa>
    <ospf3-intra-area-prefix-lsa>...</ospf3-intra-area-prefix-lsa>
    <ospf-database-extensive>...</ospf-database-extensive>
    <ospf-opaque-link-local-lsa>...</ospf-opaque-link-local-lsa>
  </ospf3-database>
</ospf3-database-information>
```

Description No documentation is available yet.

Contents

<advertising-router>—No documentation is available yet.

<age>—No documentation is available yet.

<checksum>—No documentation is available yet.

<lsa-id>—No documentation is available yet.

<lsa-length>—No documentation is available yet.

<lsa-type>—No documentation is available yet.

<ospf-database-extensive>—No documentation is available yet.

<ospf-do-not-age>—DoNotAge bit is set on the link-state advertisement received.

<ospf-opaque-link-local-lsa>—No documentation is available yet.

<ospf3-external-lsa>—No documentation is available yet.

<ospf3-inter-area-prefix-lsa>—No documentation is available yet.

<ospf3-inter-area-router-lsa>—No documentation is available yet.

<ospf3-intra-area-prefix-lsa>—No documentation is available yet.

<ospf3-link-lsa>—No documentation is available yet.

<ospf3-network-lsa>—No documentation is available yet.

<ospf3-router-lsa>—No documentation is available yet.

<our-entry>—No documentation is available yet.

<sequence-number>—History event number.

<ospf3-database-information>

Usage

```
<rpc-reply>
  <ospf3-database-information>
    <ospf3-area-header>...</ospf3-area-header>
    <ospf3-intf-header>...</ospf3-intf-header>
    <ospf3-database>...</ospf3-database>
    <ospf3-database-summary>...</ospf3-database-summary>
  </ospf3-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf3-area-header>—No documentation is available yet.

<ospf3-database>—No documentation is available yet.

<ospf3-database-summary>—No documentation is available yet.

<ospf3-intf-header>—No documentation is available yet.

<ospf3-database-replication-information>

Usage

```
<rpc-reply>
  <ospf3-database-replication-information>
    <ospf-database-replication>...</ospf-database-replication>
  </ospf3-database-replication-information>
</rpc-reply>
```

Description OSPFv3 LSA replication information.

Contents <ospf-database-replication>—OSPF LSA replication information.

<ospf3-database-summary>

Usage

```
<ospf3-database-information>
  <ospf3-database-summary>
    <ospf-area>ospf-area</ospf-area>
    <ospf-intf>ospf-intf</ospf-intf>
    <ospf-lsa-count>ospf-lsa-count</ospf-lsa-count>
    <ospf-lsa-type>ospf-lsa-type</ospf-lsa-type>
  </ospf3-database-summary>
</ospf3-database-information>
```

Description No documentation is available yet.

Contents <ospf-area>—Area ID.

<ospf-intf>—Name of interface.

<ospf-lsa-count>—No documentation is available yet.

<ospf-lsa-type>—No documentation is available yet.

<ospf3-external-lsa>

Usage

```
<ospf3-database>
  <ospf3-external-lsa>
    <ospf3-prefix>ospf3-prefix</ospf3-prefix>
    <ospf3-prefix-options>ospf3-prefix-options</ospf3-prefix-options>
    <type-value>type-value</type-value>
    <metric>metric</metric>
    <forward-address>forward-address</forward-address>
    <tag>tag</tag>
  </ospf3-external-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <forward-address>—No documentation is available yet.

<metric>—No documentation is available yet.

<ospf3-prefix>—No documentation is available yet.

<ospf3-prefix-options>—No documentation is available yet.

<tag>—No documentation is available yet.

<type-value>—No documentation is available yet.

<ospf3-instance-neighbor>

Usage
```
<ospf3-neighbor-information-all>
  <ospf3-instance-neighbor>
    <ospf-instance-name>ospf-instance-name</ospf-instance-name>
    <ospf3-realm-neighbor>...</ospf3-realm-neighbor>
  </ospf3-instance-neighbor>
</ospf3-neighbor-information-all>
```

Description Information about OSPFv3 neighbors within this routing instance.

Contents <ospf-instance-name>—Name of OSPF instance.

<ospf3-realm-neighbor>—Information about OSPFv3 neighbors within this realm.

<ospf3-inter-area-prefix-lsa>

Usage
```
<ospf3-database>
  <ospf3-inter-area-prefix-lsa>
    <ospf3-prefix>ospf3-prefix</ospf3-prefix>
    <ospf3-prefix-options>ospf3-prefix-options</ospf3-prefix-options>
    <metric>metric</metric>
  </ospf3-inter-area-prefix-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <metric>—No documentation is available yet.

<ospf3-prefix>—No documentation is available yet.

<ospf3-prefix-options>—No documentation is available yet.

<ospf3-inter-area-router-lsa>

Usage
```
<ospf3-database>
  <ospf3-inter-area-router-lsa>
    <destination-router-id>destination-router-id</destination-router-id>
    <ospf3-options>ospf3-options</ospf3-options>
    <metric>metric</metric>
  </ospf3-inter-area-router-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <destination-router-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<ospf3-options>—No documentation is available yet.

<ospf3-interface>

Usage

```
<ospf3-interface-information>
  <ospf3-interface>
    <interface-name>interface-name</interface-name>
    <ospf-interface-state>ospf-interface-state</ospf-interface-state>
    <ospf-area>ospf-area</ospf-area>
    <dr-id>dr-id</dr-id>
    <bdr-id>bdr-id</bdr-id>
    <neighbor-count>neighbor-count</neighbor-count>
    <interface-address>interface-address</interface-address>
    <prefix-length>prefix-length</prefix-length>
    <ospf3-interface-index>ospf3-interface-index</ospf3-interface-index>
    <interface-type>interface-type</interface-type>
    <mtu>mtu</mtu>
    <interface-cost>interface-cost</interface-cost>
    <virtual-link-transit-area>virtual-link-transit-area
            </virtual-link-transit-area>
    <virtual-link-destination>virtual-link-destination</virtual-link-destination>
    <dr-address>dr-address</dr-address>
    <bdr-address>bdr-address</bdr-address>
    <router-priority>router-priority</router-priority>
    <adj-count>adj-count</adj-count>
    <interface-secondary/>
    <interface-flood-reduction/>
    <passive>passive</passive>
    <hello-interval>hello-interval</hello-interval>
    <poll-interval>poll-interval</poll-interval>
    <dead-interval>dead-interval</dead-interval>
    <retransmit-interval>retransmit-interval</retransmit-interval>
    <ospf-stub-type>ospf-stub-type</ospf-stub-type>
    <ipsec-sa>ipsec-sa</ipsec-sa>
    <igp-ldp-sync-holdtime>igp-ldp-sync-holdtime</igp-ldp-sync-holdtime>
    <igp-ldp-sync-state>igp-ldp-sync-state</igp-ldp-sync-state>
    <igp-ldp-sync-last-change>igp-ldp-sync-last-change</igp-ldp-sync-last-change>
    <igp-ldp-sync-reason>igp-ldp-sync-reason</igp-ldp-sync-reason>
    <igp-ldp-sync-timeleft>igp-ldp-sync-timeleft</igp-ldp-sync-timeleft>
    <interface-flood-list-count>interface-flood-list-count
            </interface-flood-list-count>
    <flood-list-count>flood-list-count</flood-list-count>
    <lsa-list>lsa-list</lsa-list>
    <interface-description-list>interface-description-list
            </interface-description-list>
  </ospf3-interface>
</ospf3-interface-information>
```

Description No documentation is available yet.

Contents <adj-count>—Count of fully adjacent neighbors.

<bdr-address>—IP address of BDR.

<bdr-id>—No documentation is available yet.

<dead-interval>—No documentation is available yet.

<dr-address>—IP address of DR.

<dr-id>—No documentation is available yet.

<flood-list-count>—No documentation is available yet.

<hello-interval>—Rate at which RSVP hellos are sent out. Default is 3 seconds.

<igp-ldp-sync-holdtime>—Length of time during which the maximum metric is advertised for an interface that is in the hold-down state because synchronization was lost between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-last-change>—Time since the state of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP) last changed.

<igp-ldp-sync-reason>—Reason for the change in the state of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-state>—State of synchronization between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<igp-ldp-sync-timeleft>—Remaining amount of time the interface will remain in the hold-down state because synchronization was lost between Label Distribution Protocol (LDP) and the interior gateway protocol (IGP).

<interface-address>—No documentation is available yet.

<interface-cost>—Cost associated with this interface.

<interface-description-list>—No documentation is available yet.

<interface-flood-list-count>—No documentation is available yet.

<interface-flood-reduction>—Flood reduction is enabled.

<interface-name>—No documentation is available yet.

<interface-secondary>—OSPF interface is secondary.

<interface-type>—No documentation is available yet.

<ipsec-sa>—No documentation is available yet.

<lsa-list>—No documentation is available yet.

<mtu>—MTU along an interface.

<neighbor-count>—Number of neighbors on PIM interface.

<ospf-area>—Area ID.

<ospf-interface-state>—No documentation is available yet.

<ospf-stub-type>—Stub type of area.

<ospf3-interface-index>—No documentation is available yet.

<passive>—No documentation is available yet.

<poll-interval>—No documentation is available yet.

<prefix-length>—No documentation is available yet.

<retransmit-interval>—No documentation is available yet.

<router-priority>—Router priority used in DR election on broadcast or NBMA interface.

<virtual-link-destination>—Virtual link destination address.

<virtual-link-transit-area>—Virtual link transit area.

<ospf3-interface-information>

Usage

```
<rpc-reply>
  <ospf3-interface-information>
    <ospf3-interface>...</ospf3-interface>
  </ospf3-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf3-interface>—No documentation is available yet.

<ospf3-interface-replication-information>

Usage

```
<rpc-reply>
  <ospf3-interface-replication-information>
    <ospf-interface-replication>...</ospf-interface-replication>
  </ospf3-interface-replication-information>
</rpc-reply>
```

Description OSPFv3 interface replication information.

Contents <ospf-interface-replication>—OSPF interface replication information.

<ospf3-intf-header>

Usage

```
<ospf3-database-information>
  <ospf3-intf-header>
    <ospf-intf>ospf-intf</ospf-intf>
    <ospf-area>ospf-area</ospf-area>
  </ospf3-intf-header>
</ospf3-database-information>
```

Description No documentation is available yet.

Contents <ospf-area>—Area ID.

<ospf-intf>—Name of interface.

<ospf3-intra-area-prefix-lsa>

Usage

```
<ospf3-database>
  <ospf3-intra-area-prefix-lsa>
    <reference-lsa-type>reference-lsa-type</reference-lsa-type>
    <reference-lsa-id>reference-lsa-id</reference-lsa-id>
    <reference-lsa-router-id>reference-lsa-router-id</reference-lsa-router-id>
    <prefix-count>prefix-count</prefix-count>
    <ospf3-prefix>ospf3-prefix</ospf3-prefix>
    <ospf3-prefix-options>ospf3-prefix-options</ospf3-prefix-options>
    <ospf3-prefix-metric>ospf3-prefix-metric</ospf3-prefix-metric>
  </ospf3-intra-area-prefix-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <ospf3-prefix>—No documentation is available yet.

<ospf3-prefix-metric>—No documentation is available yet.

<ospf3-prefix-options>—No documentation is available yet.

<prefix-count>—Number of prefixes accepted before action is taken.

<reference-lsa-id>—No documentation is available yet.

<reference-lsa-router-id>—No documentation is available yet.

<reference-lsa-type>—No documentation is available yet.

<ospf3-io-statistics-information>

Usage

```
<rpc-reply>
  <ospf3-io-statistics-information>
    <ospf-io-statistics>...</ospf-io-statistics>
  </ospf3-io-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-io-statistics>—No documentation is available yet.

<ospf3-link>

Usage

```
<ospf3-router-lsa>
  <ospf3-link>
    <link-type-name>link-type-name</link-type-name>
    <link-type-value>link-type-value</link-type-value>
    <link-intf-id>link-intf-id</link-intf-id>
    <nbr-intf-id>nbr-intf-id</nbr-intf-id>
    <nbr-rtr-id>nbr-rtr-id</nbr-rtr-id>
    <link-metric>link-metric</link-metric>
  </ospf3-link>
</ospf3-router-lsa>
```

Description No documentation is available yet.

Contents <link-intf-id>—No documentation is available yet.

<link-metric>—No documentation is available yet.

<link-type-name>—No documentation is available yet.

<link-type-value>—No documentation is available yet.

<nbr-intf-id>—No documentation is available yet.

<nbr-rtr-id>—No documentation is available yet.

<ospf3-link-lsa>

Usage

```
<ospf3-database>
  <ospf3-link-lsa>
    <linklocal-address>linklocal-address</linklocal-address>
    <ospf3-options>ospf3-options</ospf3-options>
    <router-priority>router-priority</router-priority>
    <prefix-count>prefix-count</prefix-count>
    <ospf3-prefix>ospf3-prefix</ospf3-prefix>
    <ospf3-prefix-options>ospf3-prefix-options</ospf3-prefix-options>
  </ospf3-link-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <linklocal-address>—No documentation is available yet.

<ospf3-options>—No documentation is available yet.

<ospf3-prefix>—No documentation is available yet.

<ospf3-prefix-options>—No documentation is available yet.

<prefix-count>—Number of prefixes accepted before action is taken.

<router-priority>—Router priority used in DR election on broadcast or NBMA interface.

<ospf3-log-information>

Usage

```
<rpc-reply>
  <ospf3-log-information>
    <ospf-log-instance>...</ospf-log-instance>
    <ospf-log-maximum-length>...</ospf-log-maximum-length>
    <ospf-log-events>...</ospf-log-events>
  </ospf3-log-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-log-events>—No documentation is available yet.

<ospf-log-instance>—No documentation is available yet.

<ospf-log-maximum-length>—No documentation is available yet.

<ospf3-neighbor>

Usage

```
<ospf3-neighbor-information | ospf3-realm-neighbor>
  <ospf3-neighbor>
    <neighbor-id>neighbor-id</neighbor-id>
    <interface-name>interface-name</interface-name>
    <ospf-neighbor-state>ospf-neighbor-state</ospf-neighbor-state>
    <neighbor-priority>neighbor-priority</neighbor-priority>
    <activity-timer>activity-timer</activity-timer>
    <neighbor-address>neighbor-address</neighbor-address>
    <ospf-area>ospf-area</ospf-area>
    <options>options</options>
    <neighbor-secondary/>
    <ospf3-interface-index>ospf3-interface-index</ospf3-interface-index>
    <dr-id>dr-id</dr-id>
    <bdr-id>bdr-id</bdr-id>
    <neighbor-up-time>neighbor-up-time</neighbor-up-time>
    <neighbor-adjacency-time>neighbor-adjacency-time</neighbor-adjacency-time>
    <neighbor-suppress-hello>neighbor-suppress-hello</neighbor-suppress-hello>
    <master-slave>master-slave</master-slave>
    <sequence-number>sequence-number</sequence-number>
    <dbd-retransmit-time>dbd-retransmit-time</dbd-retransmit-time>
    <lsreq-retransmit-time>lsreq-retransmit-time</lsreq-retransmit-time>
    <lsreq-enqueued/>
    <lsreq-active/>
    <lsa-list>lsa-list</lsa-list>
  </ospf3-neighbor>
</ospf3-neighbor-information | ospf3-realm-neighbor>
```

Description No documentation is available yet.

Contents

<activity-timer>—No documentation is available yet.

<bdr-id>—No documentation is available yet.

<dbd-retransmit-time>—Seconds until DBD is retransmitted.

<dr-id>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<lsa-list>—No documentation is available yet.

<lsreq-active>—No documentation is available yet.

<lsreq-enqueued>—No documentation is available yet.

<lsreq-retransmit-time>—Seconds until LSREQ is retransmitted.

<master-slave>—No documentation is available yet.

<neighbor-address>—IP address of this neighbor.

<neighbor-adjacency-time>—Time when neighbor became adjacent.

<neighbor-id>—No documentation is available yet.

<neighbor-priority>—No documentation is available yet.

<neighbor-secondary>—OSPF neighbor is on secondary interface.

<neighbor-suppress-hello>—Time when neighbor suppressed hellos.

<neighbor-up-time>—Time when neighbor came up.

<options>—No documentation is available yet.

<ospf-area>—Area ID.

<ospf-neighbor-state>—No documentation is available yet.

<ospf3-interface-index>—No documentation is available yet.

<sequence-number>—History event number.

<ospf3-neighbor-information>

Usage
```
<rpc-reply>
  <ospf3-neighbor-information>
    <ospf3-neighbor>...</ospf3-neighbor>
  </ospf3-neighbor-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf3-neighbor>—No documentation is available yet.

<ospf3-neighbor-information-all>

Usage
```
<rpc-reply>
  <ospf3-neighbor-information-all>
    <ospf3-instance-neighbor>...</ospf3-instance-neighbor>
  </ospf3-neighbor-information-all>
</rpc-reply>
```

Description Information about OSPFv3 neighbors in all routing instances.

Contents <ospf3-instance-neighbor>—Information about OSPFv3 neighbors within this routing instance.

<ospf3-neighbor-replication-information>

Usage
```
<rpc-reply>
  <ospf3-neighbor-replication-information>
    <ospf-neighbor-replication>...</ospf-neighbor-replication>
  </ospf3-neighbor-replication-information>
</rpc-reply>
```

Description OSPFv3 neighbor replication information.

Contents <ospf-neighbor-replication>—OSPF neighbor replication information.

<ospf3-network-lsa>

Usage
```
<ospf3-database>
  <ospf3-network-lsa>
    <ospf3-options>ospf3-options</ospf3-options>
    <attached-router>attached-router</attached-router>
  </ospf3-network-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <attached-router>—No documentation is available yet.

<ospf3-options>—No documentation is available yet.

<ospf3-overview-information>

Usage
```
<rpc-reply>
  <ospf3-overview-information>
    <ospf-overview>...</ospf-overview>
  </ospf3-overview-information>
</rpc-reply>
```

Description Overview information for an OSPFv3 instance.

Contents <ospf-overview>—Overview information for an OSPF instance.

<ospf3-realm-neighbor>

Usage
```
<ospf3-instance-neighbor>
  <ospf3-realm-neighbor>
    <ospf3-realm-name>ospf3-realm-name</ospf3-realm-name>
    <ospf3-neighbor>...</ospf3-neighbor>
  </ospf3-realm-neighbor>
</ospf3-instance-neighbor>
```

Description Information about OSPFv3 neighbors within this realm.

Contents <ospf3-neighbor>—No documentation is available yet.

<ospf3-realm-name>—Name of OSPFv3 realm.

<ospf3-route>

Usage

```
<ospf3-route-information>
  <ospf3-route>
    <ospf3-route-entry>...</ospf3-route-entry>
  </ospf3-route>
</ospf3-route-information>
```

Description No documentation is available yet.

Contents <ospf3-route-entry>—No documentation is available yet.

<ospf3-route-entry>

Usage

```
<ospf3-route>
  <ospf3-route-entry>
    <address-prefix>address-prefix</address-prefix>
    <route-path-type>route-path-type</route-path-type>
    <route-type>route-type</route-type>
    <next-hop-type>next-hop-type</next-hop-type>
    <interface-cost>interface-cost</interface-cost>
    <ospf-next-hop>...</ospf-next-hop>
    <ospf-area>ospf-area</ospf-area>
    <optional-capability>optional-capability</optional-capability>
    <route-origin>route-origin</route-origin>
    <route-priority>route-priority</route-priority>
    <type7/>
    <pbit/>
    <forward-nz/>
  </ospf3-route-entry>
</ospf3-route>
```

Description No documentation is available yet.

Contents

<address-prefix>—No documentation is available yet.

<forward-nz>—No documentation is available yet.

<interface-cost>—Cost associated with this interface.

<next-hop-type>—No documentation is available yet.

<optional-capability>—VEB bits received in the router LSA.

<ospf-area>—Area ID.

<ospf-next-hop>—No documentation is available yet.

<pbit>—No documentation is available yet.

<route-origin>—No documentation is available yet.

<route-path-type>—No documentation is available yet.

<route-priority>—No documentation is available yet.

<route-type>—No documentation is available yet.

<type7>—No documentation is available yet.

<ospf3-route-information>

Usage

```
<rpc-reply>
  <ospf3-route-information>
    <ospf3-route>...</ospf3-route>
  </ospf3-route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf3-route>—No documentation is available yet.

<ospf3-router-lsa>

Usage

```
<ospf3-database>
  <ospf3-router-lsa>
    <bits>bits</bits>
    <ospf3-options>ospf3-options</ospf3-options>
    <ospf3-link>...</ospf3-link>
  </ospf3-router-lsa>
</ospf3-database>
```

Description No documentation is available yet.

Contents <bits>—No documentation is available yet.

<ospf3-link>—No documentation is available yet.

<ospf3-options>—No documentation is available yet.

<ospf3-statistics-information>

Usage

```
<rpc-reply>
  <ospf3-statistics-information>
    <ospf-statistics>...</ospf-statistics>
  </ospf3-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ospf-statistics>—No documentation is available yet.

<overbooked-bandwidth>

Usage
```
<rsvp-telink>
  <overbooked-bandwidth>
    <bandwidth-priority>bandwidth-priority</bandwidth-priority>
    <total-reserved-bandwidth>total-reserved-bandwidth</total-reserved-bandwidth>
  </overbooked-bandwidth>
</rsvp-telink>
```

Description Bandwidth overbooked at different priority levels.

Contents <bandwidth-priority>—No documentation is available yet.

<total-reserved-bandwidth>—Total amount of bandwidth currently reserved.

<overbooked-ct-bandwidth>

Usage
```
<rsvp-telink>
  <overbooked-ct-bandwidth>
    <ct-class>ct-class</ct-class>
    <ct-bw0>ct-bw0</ct-bw0>
    <ct-bw1>ct-bw1</ct-bw1>
    <ct-bw2>ct-bw2</ct-bw2>
    <ct-bw3>ct-bw3</ct-bw3>
    <ct-bw4>ct-bw4</ct-bw4>
    <ct-bw5>ct-bw5</ct-bw5>
    <ct-bw6>ct-bw6</ct-bw6>
    <ct-bw7>ct-bw7</ct-bw7>
  </overbooked-ct-bandwidth>
</rsvp-telink>
```

Description Bandwidth overbooked at different class/priority levels.

Contents <ct-bw0>—No documentation is available yet.

<ct-bw1>—No documentation is available yet.

<ct-bw2>—No documentation is available yet.

<ct-bw3>—No documentation is available yet.

<ct-bw4>—No documentation is available yet.

<ct-bw5>—No documentation is available yet.

<ct-bw6>—No documentation is available yet.

<ct-bw7>—No documentation is available yet.

<ct-class>—Class type (0..7).

<packet-information>

Usage

```
<rsvp-session | detour | detour-branch>
  <packet-information>
    <previous-hop>previous-hop</previous-hop>
    <next-hop>next-hop</next-hop>
    <interface-name>interface-name</interface-name>
    <count>count</count>
  </packet-information>
</rsvp-session | detour | detour-branch>
```

Description RSVP packets sent or received per session.

Contents <count>—Number of entries.

<interface-name>—No documentation is available yet.

<next-hop>—Next-hop address.

<previous-hop>—Previous-hop address.

<packet-statistics>

Usage

```
<ospf-statistics>
  <packet-statistics>
    <ospf-packet-type>ospf-packet-type</ospf-packet-type>
    <packets-sent>packets-sent</packets-sent>
    <packets-received>packets-received</packets-received>
    <packets-sent-5seconds>packets-sent-5seconds</packets-sent-5seconds>
    <packets-received-5seconds>packets-received-5seconds
                </packets-received-5seconds>
  </packet-statistics>
</ospf-statistics>
```

Description No documentation is available yet.

Contents <ospf-packet-type>—No documentation is available yet.

<packets-received>—No documentation is available yet.

<packets-received-5seconds>—No documentation is available yet.

<packets-sent>—No documentation is available yet.

<packets-sent-5seconds>—No documentation is available yet.

<path-available-bandwidth>

Usage
```
<mpls-lsp-path>
  <path-available-bandwidth>
    <bandwidth>bandwidth</bandwidth>
    <class-type>class-type</class-type>
    <class-bandwidth>class-bandwidth</class-bandwidth>
  </path-available-bandwidth>
</mpls-lsp-path>
```

Description Available bandwidth on an LSP path.

Contents <bandwidth>—No documentation is available yet.

<class-bandwidth>—No documentation is available yet.

<class-type>—No documentation is available yet.

<path-history>

Usage
```
<mpls-lsp-path>
  <path-history>
    <sequence-number>sequence-number</sequence-number>
    <time>time</time>
    <log>log</log>
    <route>route</route>
  </path-history>
</mpls-lsp-path>
```

Description Log over time of LSP path-related events.

Contents <log>—Supplemental information of the event.

<route>—Latest RRO contents, as reported by RSVP.

<sequence-number>—History event number.

<time>—Time of the event.

<pim-bootstrap-information>

Usage
```
<rpc-reply>
  <pim-bootstrap-information>
    <pim-instance>pim-instance</pim-instance>
    <bootstrap-family>...</bootstrap-family>
  </pim-bootstrap-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <bootstrap-family>—No documentation is available yet.

<pim-instance>—Name of the PIM instance.

<pim-group-flags>

Usage

```
<join-group>
  <pim-group-flags>
    <sparse/>
    <dense/>
    <delete/>
    <rptree/>
    <wildcard/>
    <spt/>
    <spt-pending/>
  </pim-group-flags>
</join-group>
```

Description No documentation is available yet.

Contents <delete>—No documentation is available yet.

<dense>—No documentation is available yet.

<rptree>—No documentation is available yet.

<sparse>—No documentation is available yet.

<spt>—No documentation is available yet.

<spt-pending>—No documentation is available yet.

<wildcard>—No documentation is available yet.

<pim-interface>

Usage

```
<pim-interfaces-information | pim-neighbors-information>
  <pim-interface>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <status>status</status>
    <pim-interface-mode>pim-interface-mode</pim-interface-mode>
    <ip-protocol-version>ip-protocol-version</ip-protocol-version>
    <protocol-version>protocol-version</protocol-version>
    <interface-state>interface-state</interface-state>
    <neighbor-count>neighbor-count</neighbor-count>
    <interface-join-count>interface-join-count</interface-join-count>
    <designated-router-address>designated-router-address
                    </designated-router-address>
    <pim-neighbor>...</pim-neighbor>
  </pim-interface>
</pim-interfaces-information | pim-neighbors-information>
```

Description No documentation is available yet.

Contents <designated-router-address>—Designated router address of PIM interface.

<interface-join-count>—Number of joins sent on the interface.

<interface-state>—State of PIM interface.

<ip-protocol-version>—IP protocol version of PIM interface.

<neighbor-count>—Number of neighbors on PIM interface.

<pim-interface-mode>—Mode of PIM interface.

<pim-interface-name>—Name of PIM interface.

<pim-neighbor>—No documentation is available yet.

<protocol-version>—PIM protocol version of PIM interface.

<status>—Status of PIM interface.

<pim-interfaces-information>

Usage

```
<rpc-reply>
  <pim-interfaces-information>
    <pim-instance>pim-instance</pim-instance>
    <pim-interface>...</pim-interface>
  </pim-interfaces-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pim-instance>—Name of the PIM instance.

<pim-interface>—No documentation is available yet.

<pim-join-information>

Usage

```
<rpc-reply>
  <pim-join-information>
    <join-family>...</join-family>
  </pim-join-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <join-family>—No documentation is available yet.

<pim-mdt-information>

Usage

```
<rpc-reply>
  <pim-mdt-information>
    <pim-instance>pim-instance</pim-instance>
    <mdt-default-group-address>mdt-default-group-address
                </mdt-default-group-address>
    <mdt-default-source-address>mdt-default-source-address
                </mdt-default-source-address>
    <mdt-default-interface-name>mdt-default-interface-name
                </mdt-default-interface-name>
    <mdt-tunnel-direction>mdt-tunnel-direction</mdt-tunnel-direction>
    <mdt-tunnel-mode>mdt-tunnel-mode</mdt-tunnel-mode>
    <mdt-pim-instance>mdt-pim-instance</mdt-pim-instance>
    <mdt-default-tunnel-information>mdt-default-tunnel-information
                </mdt-default-tunnel-information>
    <mdt-active-tunnel>...</mdt-active-tunnel>
  </pim-mdt-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <mdt-active-tunnel>—No documentation is available yet.

<mdt-default-group-address>—No documentation is available yet.

<mdt-default-interface-name>—No documentation is available yet.

<mdt-default-source-address>—No documentation is available yet.

<mdt-default-tunnel-information>—No documentation is available yet.

<mdt-pim-instance>—No documentation is available yet.

<mdt-tunnel-direction>—No documentation is available yet.

<mdt-tunnel-mode>—No documentation is available yet.

<pim-instance>—Name of the PIM instance.

<pim-mvpn-information>

Usage

```
<rpc-reply>
  <pim-mvpn-information>
    <pim-mvpn-instance-name>pim-mvpn-instance-name</pim-mvpn-instance-name>
    <pim-mvpn-address>pim-mvpn-address</pim-mvpn-address>
    <pim-mvpn-mode>pim-mvpn-mode</pim-mvpn-mode>
    <pim-mvpn-tunnel>pim-mvpn-tunnel</pim-mvpn-tunnel>
  </pim-mvpn-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pim-mvpn-address>—No documentation is available yet.

<pim-mvpn-instance-name>—No documentation is available yet.

<pim-mvpn-mode>—MVPN control protocol.

<pim-mvpn-tunnel>—MVPN Tunnel Type.

<pim-neighbor>

Usage

```
<pim-interface>
  <pim-neighbor>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <ip-protocol-version>ip-protocol-version</ip-protocol-version>
    <protocol-version>protocol-version</protocol-version>
    <pim-interface-mode>pim-interface-mode</pim-interface-mode>
    <neighbor-join-count>neighbor-join-count</neighbor-join-count>
    <pim-neighbor-flags>...</pim-neighbor-flags>
    <pim-neighbor-uptime>pim-neighbor-uptime</pim-neighbor-uptime>
    <pim-neighbor-address>pim-neighbor-address</pim-neighbor-address>
    <pim-neighbor-secondary-address>pim-neighbor-secondary-address
                </pim-neighbor-secondary-address>
    <hello-holdtime>hello-holdtime</hello-holdtime>
    <hello-holdtime-remaining>hello-holdtime-remaining</hello-holdtime-remaining>
    <hello-default-holdtime>hello-default-holdtime</hello-default-holdtime>
    <hello-default-holdtime-remaining>hello-default-holdtime-remaining
                </hello-default-holdtime-remaining>
    <hello-dr-priority>hello-dr-priority</hello-dr-priority>
    <hello-generation-id>hello-generation-id</hello-generation-id>
    <hello-lanprune-delay>hello-lanprune-delay</hello-lanprune-delay>
    <hello-override-interval>hello-override-interval</hello-override-interval>
    <pim-neighbor-bfd>...</pim-neighbor-bfd>
    <pim-neighbor-join>...</pim-neighbor-join>
    <pim-neighbor-assert>...</pim-neighbor-assert>
  </pim-neighbor>
</pim-interface>
```

Description No documentation is available yet.

Contents

<hello-default-holdtime>—PIM neighbor default holdtime.

<hello-default-holdtime-remaining>—PIM neighbor timeout from default holdtime.

<hello-dr-priority>—No documentation is available yet.

<hello-generation-id>—No documentation is available yet.

<hello-holdtime>—No documentation is available yet.

<hello-holdtime-remaining>—No documentation is available yet.

<hello-lanprune-delay>—No documentation is available yet.

<hello-override-interval>—No documentation is available yet.

<ip-protocol-version>—IP protocol version of PIM interface.

<neighbor-join-count>—Number of joins sent to the neighbor.

<pim-interface-mode>—Mode of PIM interface.

<pim-interface-name>—Name of PIM interface.

<pim-neighbor-address>—PIM neighbor address.

<pim-neighbor-assert>—No documentation is available yet.

<pim-neighbor-bfd>—No documentation is available yet.

<pim-neighbor-flags>—No documentation is available yet.

<pim-neighbor-join>—No documentation is available yet.

<pim-neighbor-secondary-address>—PIM neighbor secondary address.

<pim-neighbor-uptime>—PIM neighbor uptime.

<protocol-version>—PIM protocol version of PIM interface.

<pim-neighbor-assert>

Usage

```
<pim-neighbor>
  <pim-neighbor-assert>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <assert-state>assert-state</assert-state>
    <pim-neighbor-address>pim-neighbor-address</pim-neighbor-address>
    <assert-timeout>assert-timeout</assert-timeout>
  </pim-neighbor-assert>
</pim-neighbor>
```

Description No documentation is available yet.

Contents <assert-state>—No documentation is available yet.

<assert-timeout>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<pim-neighbor-address>—PIM neighbor address.

<pim-neighbor-bfd>

Usage

```
<pim-neighbor>
  <pim-neighbor-bfd>
    <configuration-state>configuration-state</configuration-state>
    <operational-state>operational-state</operational-state>
  </pim-neighbor-bfd>
</pim-neighbor>
```

Description No documentation is available yet.

Contents <configuration-state>—State (enabled or disabled) of Bidirectional Forwarding Detection for a PIM neighbor.

<operational-state>—Operational state of Bidirectional Forwarding Detection session for a PIM neighbor.

<pim-neighbor-flags>

Usage

```
<pim-neighbor>
  <pim-neighbor-flags>
    <pim-neighbor-hold-time-flag/>
    <pim-neighbor-priority-flag/>
    <pim-neighbor-lan-prune-flag/>
    <pim-neighbor-generation-id-flag/>
    <pim-neighbor-bidirectional-flag/>
    <pim-neighbor-t-bit-flag/>
  </pim-neighbor-flags>
</pim-neighbor>
```

Description No documentation is available yet.

Contents <pim-neighbor-bidirectional-flag>—No documentation is available yet.

<pim-neighbor-generation-id-flag>—No documentation is available yet.

<pim-neighbor-hold-time-flag>—No documentation is available yet.

<pim-neighbor-lan-prune-flag>—No documentation is available yet.

<pim-neighbor-priority-flag>—No documentation is available yet.

<pim-neighbor-t-bit-flag>—No documentation is available yet.

<pim-neighbor-join>

Usage
```
<pim-neighbor>
  <pim-neighbor-join>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <join-timeout>join-timeout</join-timeout>
  </pim-neighbor-join>
</pim-neighbor>
```

Description No documentation is available yet.

Contents <join-timeout>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<pim-neighbors-information>

Usage
```
<rpc-reply>
  <pim-neighbors-information>
    <pim-instance>pim-instance</pim-instance>
    <pim-interface>...</pim-interface>
  </pim-neighbors-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pim-instance>—Name of the PIM instance.

<pim-interface>—No documentation is available yet.

<pim-other-statistic>

Usage
```
<pim-statistics-other>
  <pim-other-statistic>
    <statistic-name>statistic-name</statistic-name>
    <statistic-count>statistic-count</statistic-count>
  </pim-other-statistic>
</pim-statistics-other>
```

Description No documentation is available yet.

Contents <statistic-count>—No documentation is available yet.

<statistic-name>—No documentation is available yet.

<pim-rps-information>

Usage

```
<rpc-reply>
  <pim-rps-information>
    <pim-instance>pim-instance</pim-instance>
    <rp-family>...</rp-family>
    <rendezvous-point-address-info>...</rendezvous-point-address-info>
  </pim-rps-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <pim-instance>—Name of the PIM instance.

<rendezvous-point-address-info>—No documentation is available yet.

<rp-family>—No documentation is available yet.

<pim-source>

Usage

```
<source-family>
  <pim-source>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <route-prefix>route-prefix</route-prefix>
    <upstream-interface-name>upstream-interface-name</upstream-interface-name>
    <upstream-neighbor>upstream-neighbor</upstream-neighbor>
    <upstream-group>...</upstream-group>
  </pim-source>
</source-family>
```

Description No documentation is available yet.

Contents <multicast-source-address>—Source address.

<route-prefix>—No documentation is available yet.

<upstream-group>—No documentation is available yet.

<upstream-interface-name>—Upstream interface.

<upstream-neighbor>—No documentation is available yet.

<pim-source-information>

Usage

```
<rpc-reply>
  <pim-source-information>
    <source-family>...</source-family>
  </pim-source-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <source-family>—No documentation is available yet.

<pim-statistic>

Usage
```
<pim-statistics-interface | pim-statistics-global>
  <pim-statistic>
    <statistic-name>statistic-name</statistic-name>
    <received-count>received-count</received-count>
    <sent-count>sent-count</sent-count>
    <error-count>error-count</error-count>
  </pim-statistic>
</pim-statistics-interface | pim-statistics-global>
```

Description No documentation is available yet.

Contents <error-count>—Total number of errors encountered.

<received-count>—No documentation is available yet.

<sent-count>—No documentation is available yet.

<statistic-name>—No documentation is available yet.

<pim-statistics-all>

Usage
```
<pim-statistics-information>
  <pim-statistics-all>
    <pim-instance>pim-instance</pim-instance>
    <pim-statistics-global>...</pim-statistics-global>
    <pim-statistics-other>...</pim-statistics-other>
  </pim-statistics-all>
</pim-statistics-information>
```

Description No documentation is available yet.

Contents <pim-instance>—Name of the PIM instance.

<pim-statistics-global>—No documentation is available yet.

<pim-statistics-other>—No documentation is available yet.

<pim-statistics-global>

Usage
```
<pim-statistics-all | everything>
  <pim-statistics-global>
    <pim-statistic>...</pim-statistic>
  </pim-statistics-global>
</pim-statistics-all | everything>
```

Description No documentation is available yet.

Contents <pim-statistic>—No documentation is available yet.

<pim-statistics-information>

Usage
```
<rpc-reply>
  <pim-statistics-information>
    <statistics-family>...</statistics-family>
    <pim-statistics-all>...</pim-statistics-all>
    <everything>...</everything>
  </pim-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <everything>—No documentation is available yet.

<pim-statistics-all>—No documentation is available yet.

<statistics-family>—No documentation is available yet.

<pim-statistics-interface>

Usage
```
<statistics-family>
  <pim-statistics-interface>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <pim-statistic>...</pim-statistic>
  </pim-statistics-interface>
</statistics-family>
```

Description No documentation is available yet.

Contents <pim-interface-name>—Name of PIM interface.

<pim-statistic>—No documentation is available yet.

<pim-statistics-other>

Usage
```
<pim-statistics-all | everything>
  <pim-statistics-other>
    <pim-other-statistic>...</pim-other-statistic>
  </pim-statistics-other>
</pim-statistics-all | everything>
```

Description No documentation is available yet.

Contents <pim-other-statistic>—No documentation is available yet.

<prefix-element>

Usage

```
<isis-spf-result>
  <prefix-element>
    <address-prefix>address-prefix</address-prefix>
    <prefix-metric>prefix-metric</prefix-metric>
    <external-prefix-metric>external-prefix-metric</external-prefix-metric>
  </prefix-element>
</isis-spf-result>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<external-prefix-metric>—No documentation is available yet.

<prefix-metric>—No documentation is available yet.

<prefix-limit>

Usage

```
<bgp-option-information>
  <prefix-limit>
    <nlri-type>nlri-type</nlri-type>
    <prefix-count>prefix-count</prefix-count>
    <limit-action>limit-action</limit-action>
    <warning-percentage>warning-percentage</warning-percentage>
  </prefix-limit>
</bgp-option-information>
```

Description No documentation is available yet.

Contents <limit-action>—Action taken upon reaching limit.

<nlri-type>—Type of NLRI being limited.

<prefix-count>—Number of prefixes accepted before action is taken.

<warning-percentage>—Percentage of limit at which to log a warning.

<prefix-reachability>

Usage

```
<isis-database-local-data>
  <prefix-reachability>
    <address-prefix>address-prefix</address-prefix>
    <route-type>route-type</route-type>
    <metric>metric</metric>
    <flags>flags</flags>
    <level>level</level>
    <isis-fragment>isis-fragment</isis-fragment>
    <tsi>tsi</tsi>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <isis-prefix-tag>...</isis-prefix-tag>
  </prefix-reachability>
</isis-database-local-data>
```

Description No documentation is available yet.

Contents <address-prefix>—No documentation is available yet.

<flags>—Enabled trace flags.

<isis-fragment>—No documentation is available yet.

<isis-prefix-tag>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<level>—No documentation is available yet.

<metric>—No documentation is available yet.

<route-type>—No documentation is available yet.

<tsi>—Task-specific information.

<protocol-nh>

Usage

```
<rt-entry | node | krt-nexthop>
  <protocol-nh>
    <to>to</to>
    <metric>metric</metric>
    <indirect-nh>indirect-nh</indirect-nh>
    <composite-nh>composite-nh</composite-nh>
    <vpnlabel-nh>vpnlabel-nh</vpnlabel-nh>
    <mpls-label>mpls-label</mpls-label>
    <balance>balance</balance>
    <forwarding-nh-count>forwarding-nh-count</forwarding-nh-count>
    <nh-type>nh-type</nh-type>
    <ext-int-type>ext-int-type</ext-int-type>
    <nh>...</nh>
  </protocol-nh>
</rt-entry | node | krt-nexthop>
```

Description Protocol next hop.

Contents

<balance>—Next-hop balance.

<composite-nh>—No documentation is available yet.

<ext-int-type>—Next-hop type of equal-external-internal multipath.

<forwarding-nh-count>—Number of indirect path forwarding next hops.

<indirect-nh>—No documentation is available yet.

<metric>—No documentation is available yet.

<mpls-label>—Label of MPLS packet.

<nh>—Next-hop gateway information.

<nh-type>—Special next hop: Reject, Blackhole, Receive, Multicast, Local, or Unused.

<to>—Neighbor address to which to send (next-hop address).

<vpnlabel-nh>—No documentation is available yet.

<protocols>

Usage
```
<route-table>
  <protocols>
    <protocol-name>protocol-name</protocol-name>
    <protocol-route-count>protocol-route-count</protocol-route-count>
    <active-route-count>active-route-count</active-route-count>
  </protocols>
</route-table>
```

Description No documentation is available yet.

Contents <active-route-count>—Active routes.

<protocol-name>—No documentation is available yet.

<protocol-route-count>—Total protocol routes.

<protocols-tlv>

Usage
```
<isis-tlv>
  <protocols-tlv>
    <protocol>protocol</protocol>
  </protocols-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <protocol>—No documentation is available yet.

<provider-tunnel>

Usage
```
<instance | instance-entry>
  <provider-tunnel>
    <provider-tunnel-id>provider-tunnel-id</provider-tunnel-id>
  </provider-tunnel>
</instance | instance-entry>
```

Description No documentation is available yet.

Contents <provider-tunnel-id>—Provider tunnel identifier.

<proxy-upstream-interface>

Usage
```
<multicast-pim-to-igmp-proxy | multicast-pim-to-mld-proxy>
  <proxy-upstream-interface>
    <interface-name>interface-name</interface-name>
  </proxy-upstream-interface>
</multicast-pim-to-igmp-proxy | multicast-pim-to-mld-proxy>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<reachability-tlv>

Usage

```
<isis-tlv>
  <reachability-tlv>
    <isis-topology-id>isis-topology-id</isis-topology-id>
    <address-prefix>address-prefix</address-prefix>
    <metric>metric</metric>
    <metric-flag>metric-flag</metric-flag>
    <reachability-delay/>
    <reachability-expense/>
    <reachability-error/>
    <prefix-status>prefix-status</prefix-status>
    <address>address</address>
    <neighbor-prefix>neighbor-prefix</neighbor-prefix>
    <tlv-length>tlv-length</tlv-length>
    <isis-reachability-subtlv>...</isis-reachability-subtlv>
  </reachability-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents

<address>—No documentation is available yet.

<address-prefix>—No documentation is available yet.

<isis-reachability-subtlv>—No documentation is available yet.

<isis-topology-id>—No documentation is available yet.

<metric>—No documentation is available yet.

<metric-flag>—No documentation is available yet.

<neighbor-prefix>—No documentation is available yet.

<prefix-status>—No documentation is available yet.

<reachability-delay>—No documentation is available yet.

<reachability-error>—No documentation is available yet.

<reachability-expense>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<record-route>

Usage
```
<rsvp-session | detour | detour-branch>
  <record-route>
    <address>address</address>
    <telink-id>telink-id</telink-id>
    <self/>
    <incomplete/>
  </record-route>
</rsvp-session | detour | detour-branch>
```

Description Record Route Object (RRO).

Contents <address>—No documentation is available yet.

<incomplete>—No documentation is available yet.

<self>—No documentation is available yet.

<telink-id>—Link identifier of unnumbered link.

<redundant-sources>

Usage
```
<multicast-flow-map>
  <redundant-sources>
    <multicast-source-address>multicast-source-address</multicast-source-address>
  </redundant-sources>
</multicast-flow-map>
```

Description Redundant source addresses.

Contents <multicast-source-address>—Source address.

<reference-site>

Usage

```
<instance | vpls-protocol-state>
  <reference-site>
    <vpls-signaling-protocol-identifier>vpls-signaling-protocol-identifier
                </vpls-signaling-protocol-identifier>
    <local-site-id>local-site-id</local-site-id>
    <vpls-id>vpls-id</vpls-id>
    <num-local-interfaces>num-local-interfaces</num-local-interfaces>
    <num-local-interfaces-up>num-local-interfaces-up</num-local-interfaces-up>
    <irb-present>irb-present</irb-present>
    <mesh-group-count>mesh-group-count</mesh-group-count>
    <mesh-group-up-count>mesh-group-up-count</mesh-group-up-count>
    <remote-site-id>remote-site-id</remote-site-id>
    <mesh-group-interfaces>...</mesh-group-interfaces>
    <interface>...</interface>
    <label-block>...</label-block>
    <connection>...</connection>
    <mesh-group-connection>...</mesh-group-connection>
    <automatic-site-name>automatic-site-name</automatic-site-name>
    <automatic-site-id-status>automatic-site-id-status</automatic-site-id-status>
    <automatic-site-claim-id>automatic-site-claim-id</automatic-site-claim-id>
    <automatic-site-collisions>automatic-site-collisions
                </automatic-site-collisions>
    <automatic-site-timer-status>automatic-site-timer-status
                </automatic-site-timer-status>
    <automatic-site-timers>...</automatic-site-timers>
    <connections-summary>...</connections-summary>
  </reference-site>
</instance | vpls-protocol-state>
```

Description No documentation is available yet.

Contents

<automatic-site-claim-id>—Claim site identifier.

<automatic-site-collisions>—Number of collisions.

<automatic-site-id-status>—VPLS automatic site identifier status.

<automatic-site-name>—VPLS automatic site name.

<automatic-site-timer-status>—VPLS automatic site timer status.

<automatic-site-timers>—No documentation is available yet.

<connection>—No documentation is available yet.

<connections-summary>—No documentation is available yet.

<interface>—No documentation is available yet.

<irb-present>—No documentation is available yet.

<label-block>—No documentation is available yet.

<local-site-id>—No documentation is available yet.

<mesh-group-connection>—Information about all vc-connections of a specific mesh-group.

<mesh-group-count>—No documentation is available yet.

<mesh-group-interfaces>—Information about all interfaces associated with a mesh-group.

<mesh-group-up-count>—No documentation is available yet.

<num-local-interfaces>—No documentation is available yet.

<num-local-interfaces-up>—No documentation is available yet.

<remote-site-id>—No documentation is available yet.

<vpls-id>—VPLS instance identifier.

<vpls-signaling-protocol-identifier>—No documentation is available yet.

<remote-interface>

Usage

```
<connection>
  <remote-interface>
    <interface-name>interface-name</interface-name>
    <interface-status>interface-status</interface-status>
    <interface-encapsulation>interface-encapsulation</interface-encapsulation>
  </remote-interface>
</connection>
```

Description No documentation is available yet.

Contents <interface-encapsulation>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<interface-status>—No documentation is available yet.

<rendezvous-point>

Usage

```
<rp-family>
  <rendezvous-point>
    <rendezvous-point-address>rendezvous-point-address</rendezvous-point-address>
    <rp-flag-static/>
    <rp-flag-autorp/>
    <rp-flag-bootstrap/>
    <rp-flag-embedded-rp/>
    <rendezvous-point-from-address>rendezvous-point-from-address
                </rendezvous-point-from-address>
    <rendezvous-point-holdtime>rendezvous-point-holdtime
                </rendezvous-point-holdtime>
    <rendezvous-point-refcount>rendezvous-point-refcount
                </rendezvous-point-refcount>
    <rendezvous-point-time-active>rendezvous-point-time-active
                </rendezvous-point-time-active>
    <rendezvous-point-holdtime-remaining>rendezvous-point-holdtime-remaining
                </rendezvous-point-holdtime-remaining>
    <rp-interface-device-index>rp-interface-device-index
                </rp-interface-device-index>
    <rp-interface-device-subunit>rp-interface-device-subunit
                </rp-interface-device-subunit>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <rendezvous-point-timeout>rendezvous-point-timeout</rendezvous-point-timeout>
    <rendezvous-point-active-groups>rendezvous-point-active-groups
                </rendezvous-point-active-groups>
    <rendezvous-point-group-prefixes>...</rendezvous-point-group-prefixes>
    <rendezvous-point-active-group-prefixes>...
                </rendezvous-point-active-group-prefixes>
    <rendezvous-point-register-state>...</rendezvous-point-register-state>
    <rendezvous-point-anycast-pim-rpset>...</rendezvous-point-anycast-pim-rpset>

<rendezvous-point-anycast-pim-local-address>rendezvous-point-anycast-pim-local-addres
s
                </rendezvous-point-anycast-pim-local-address>
    <rendezvous-point-anycast-register-state>...
                </rendezvous-point-anycast-register-state>
  </rendezvous-point>
</rp-family>
```

Description No documentation is available yet.

Contents

<pim-interface-name>—Name of PIM interface.

<rendezvous-point-active-group-prefixes>—No documentation is available yet.

<rendezvous-point-active-groups>—No documentation is available yet.

<rendezvous-point-address>—Address of rendezvous point.

<rendezvous-point-anycast-pim-local-address>—Local address for replicating register messages to anycast RPs.

<rendezvous-point-anycast-pim-rpset>—IPv4 address of one or more remote anycast

RPs.

<rendezvous-point-anycast-register-state>—Anycast register state.

<rendezvous-point-from-address>—No documentation is available yet.

<rendezvous-point-group-prefixes>—No documentation is available yet.

<rendezvous-point-holdtime>—No documentation is available yet.

<rendezvous-point-holdtime-remaining>—No documentation is available yet.

<rendezvous-point-refcount>—No documentation is available yet.

<rendezvous-point-register-state>—No documentation is available yet.

<rendezvous-point-time-active>—No documentation is available yet.

<rendezvous-point-timeout>—No documentation is available yet.

<rp-flag-autorp>—No documentation is available yet.

<rp-flag-bootstrap>—No documentation is available yet.

<rp-flag-embedded-rp>—No documentation is available yet.

<rp-flag-static>—No documentation is available yet.

<rp-interface-device-index>—No documentation is available yet.

<rp-interface-device-subunit>—No documentation is available yet.

<rendezvous-point-active-group-prefix>

Usage

```
<rendezvous-point-active-group-prefixes>
  <rendezvous-point-active-group-prefix>
    <multicast-group-address>multicast-group-address</multicast-group-address>
  </rendezvous-point-active-group-prefix>
</rendezvous-point-active-group-prefixes>
```

Description No documentation is available yet.

Contents <multicast-group-address>—Group address.

<rendezvous-point-active-group-prefixes>

Usage

```
<rendezvous-point>
  <rendezvous-point-active-group-prefixes>
    <rendezvous-point-active-group-prefix>...
                    </rendezvous-point-active-group-prefix>
    <rendezvous-point-active-groups>rendezvous-point-active-groups
                    </rendezvous-point-active-groups>
  </rendezvous-point-active-group-prefixes>
</rendezvous-point>
```

Description No documentation is available yet.

Contents <rendezvous-point-active-group-prefix>—No documentation is available yet.

<rendezvous-point-active-groups>—No documentation is available yet.

<rendezvous-point-address-info>

Usage

```
<pim-rps-information>
  <rendezvous-point-address-info>
    <pim-instance>pim-instance</pim-instance>
    <rendezvous-point-trees>...</rendezvous-point-trees>
    <rendezvous-point-address>rendezvous-point-address</rendezvous-point-address>
    <rendezvous-point-embedded-rp-address/>
    <rendezvous-point-no-address>rendezvous-point-no-address
                    </rendezvous-point-no-address>
  </rendezvous-point-address-info>
</pim-rps-information>
```

Description No documentation is available yet.

Contents <pim-instance>—Name of the PIM instance.

<rendezvous-point-address>—Address of rendezvous point.

<rendezvous-point-embedded-rp-address>—No documentation is available yet.

<rendezvous-point-no-address>—No documentation is available yet.

<rendezvous-point-trees>—No documentation is available yet.

<rendezvous-point-addresses>

Usage
```
<rendezvous-point-trees>
  <rendezvous-point-addresses>
    <rendezvous-point-address>rendezvous-point-address</rendezvous-point-address>
    <rendezvous-point-hash>rendezvous-point-hash</rendezvous-point-hash>
  </rendezvous-point-addresses>
</rendezvous-point-trees>
```

Description No documentation is available yet.

Contents <rendezvous-point-address>—Address of rendezvous point.

<rendezvous-point-hash>—No documentation is available yet.

<rendezvous-point-anycast-pim-rpset>

Usage
```
<rendezvous-point>
  <rendezvous-point-anycast-pim-rpset>
    <multicast-group-address>multicast-group-address</multicast-group-address>
  </rendezvous-point-anycast-pim-rpset>
</rendezvous-point>
```

Description IPv4 address of one or more remote anycast RPs.

Contents <multicast-group-address>—Group address.

<rendezvous-point-anycast-register-state>

Usage
```
<rendezvous-point>
  <rendezvous-point-anycast-register-state>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <pim-anycast-register-state-origin>pim-anycast-register-state-origin
                </pim-anycast-register-state-origin>
  </rendezvous-point-anycast-register-state>
</rendezvous-point>
```

Description Anycast register state.

Contents <multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<pim-anycast-register-state-origin>—Origin of anycast register state.

<rendezvous-point-group-prefixes>

Usage

```
<rendezvous-point>
  <rendezvous-point-group-prefixes>
    <multicast-group-prefix>multicast-group-prefix</multicast-group-prefix>
    <rp-group-timeout>rp-group-timeout</rp-group-timeout>
    <rp-group-state>rp-group-state</rp-group-state>
  </rendezvous-point-group-prefixes>
</rendezvous-point>
```

Description No documentation is available yet.

Contents <multicast-group-prefix>—Group prefix.

<rp-group-state>—No documentation is available yet.

<rp-group-timeout>—Time remaining for RP group prefix.

<rendezvous-point-register-state>

Usage

```
<rendezvous-point>
  <rendezvous-point-register-state>
    <multicast-group-address>multicast-group-address</multicast-group-address>
    <multicast-source-address>multicast-source-address</multicast-source-address>
    <first-hop-address>first-hop-address</first-hop-address>
    <rendezvous-point-address>rendezvous-point-address</rendezvous-point-address>
    <pim-register-state>pim-register-state</pim-register-state>
    <pim-register-timeout>pim-register-timeout</pim-register-timeout>
  </rendezvous-point-register-state>
</rendezvous-point>
```

Description No documentation is available yet.

Contents <first-hop-address>—No documentation is available yet.

<multicast-group-address>—Group address.

<multicast-source-address>—Source address.

<pim-register-state>—No documentation is available yet.

<pim-register-timeout>—No documentation is available yet.

<rendezvous-point-address>—Address of rendezvous point.

<rendezvous-point-trees>

Usage

```
<rendezvous-point-address-info>
  <rendezvous-point-trees>
    <multicast-group-prefix>multicast-group-prefix</multicast-group-prefix>
    <rendezvous-point-addresses>...</rendezvous-point-addresses>
  </rendezvous-point-trees>
</rendezvous-point-address-info>
```

Description No documentation is available yet.

Contents <multicast-group-prefix>—Group prefix.

<rendezvous-point-addresses>—No documentation is available yet.

<reserved-bandwidth>

Usage

```
<rsvp-telink>
  <reserved-bandwidth>
    <bandwidth-priority>bandwidth-priority</bandwidth-priority>
    <total-reserved-bandwidth>total-reserved-bandwidth</total-reserved-bandwidth>
  </reserved-bandwidth>
</rsvp-telink>
```

Description Bandwidth reserved at different priority levels.

Contents <bandwidth-priority>—No documentation is available yet.

<total-reserved-bandwidth>—Total amount of bandwidth currently reserved.

<reserved-ct-bandwidth>

Usage

```
<rsvp-telink>
  <reserved-ct-bandwidth>
    <ct-class>ct-class</ct-class>
    <ct-bw0>ct-bw0</ct-bw0>
    <ct-bw1>ct-bw1</ct-bw1>
    <ct-bw2>ct-bw2</ct-bw2>
    <ct-bw3>ct-bw3</ct-bw3>
    <ct-bw4>ct-bw4</ct-bw4>
    <ct-bw5>ct-bw5</ct-bw5>
    <ct-bw6>ct-bw6</ct-bw6>
    <ct-bw7>ct-bw7</ct-bw7>
  </reserved-ct-bandwidth>
</rsvp-telink>
```

Description Bandwidth reserved at different class and priority levels.

Contents <ct-bw0>—No documentation is available yet.

<ct-bw1>—No documentation is available yet.

<ct-bw2>—No documentation is available yet.

<ct-bw3>—No documentation is available yet.

<ct-bw4>—No documentation is available yet.

<ct-bw5>—No documentation is available yet.

<ct-bw6>—No documentation is available yet.

<ct-bw7>—No documentation is available yet.

<ct-class>—Class type (0..7).

<reverse-oif>

Usage

```
<mgm-group>
  <reverse-oif>
    <oif-name>oif-name</oif-name>
    <host-count>host-count</host-count>
  </reverse-oif>
</mgm-group>
```

Description No documentation is available yet.

Contents <host-count>—Host reference count.

<oif-name>—Reverse OIF name.

<rip-error>

Usage
```
<rpc-reply>
  <rip-error>
    <rip-error-message>rip-error-message</rip-error-message>
  </rip-error>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rip-error-message>—RIP error message.

<rip-general-statistics>

Usage
```
<rip-general-statistics-information>
  <rip-general-statistics>
    <rip-protocol-name>rip-protocol-name</rip-protocol-name>
    <rip-bad-messages>rip-bad-messages</rip-bad-messages>
    <rip-interface-count>rip-interface-count</rip-interface-count>
    <rip-current-memory>rip-current-memory</rip-current-memory>
    <rip-maximum-memory>rip-maximum-memory</rip-maximum-memory>
  </rip-general-statistics>
</rip-general-statistics-information>
```

Description No documentation is available yet.

Contents <rip-bad-messages>—Number of bad messages received so far.

<rip-current-memory>—Amount of memory currently allocated by the protocol. This value is zero if the protocol is not running.

<rip-interface-count>—Number of interfaces on which the protocol is enabled.

<rip-maximum-memory>—Maximum amount of memory the protocol ever used. This value might be nonzero even if the protocol is not currently running.

<rip-protocol-name>—Protocol name for the subsequent information: either RIPv2 or RIPng.

<rip-general-statistics-information>

Usage
```
<rpc-reply>
  <rip-general-statistics-information>
    <rip-general-statistics>...</rip-general-statistics>
  </rip-general-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rip-general-statistics>—No documentation is available yet.

<rip-global-statistics>

Usage
```
<rip-statistics-information | rip-instance-statistics>
  <rip-global-statistics>
    <rip-routes-learned>rip-routes-learned</rip-routes-learned>
    <rip-routes-holddown>rip-routes-holddown</rip-routes-holddown>
    <rip-requests-dropped>rip-requests-dropped</rip-requests-dropped>
    <rip-responses-dropped>rip-responses-dropped</rip-responses-dropped>
  </rip-global-statistics>
</rip-statistics-information | rip-instance-statistics>
```

Description RIP global statistics.

Contents <rip-requests-dropped>—Number of requests dropped.

<rip-responses-dropped>—Number of responses dropped.

<rip-routes-holddown>—Number of routes in hold-down state.

<rip-routes-learned>—Number of routes learned.

<rip-instance-neighbor>

Usage
```
<rip-neighbor-information-all>
  <rip-instance-neighbor>
    <rip-instance-name>rip-instance-name</rip-instance-name>
    <rip-neighbor>...</rip-neighbor>
  </rip-instance-neighbor>
</rip-neighbor-information-all>
```

Description Information about RIP neighbors within this routing instance.

Contents <rip-instance-name>—Name of RIP instance.

<rip-neighbor>—No documentation is available yet.

<rip-instance-statistics>

Usage

```
<rip-statistics-information-all>
  <rip-instance-statistics>
    <rip-instance-name>rip-instance-name</rip-instance-name>
    <rip-timer-values>...</rip-timer-values>
    <rip-restart-values>...</rip-restart-values>
    <rip-global-statistics>...</rip-global-statistics>
    <rip-neighbor-statistics>...</rip-neighbor-statistics>
  </rip-instance-statistics>
</rip-statistics-information-all>
```

Description Information about statistics for this routing instance.

Contents <rip-global-statistics>—RIP global statistics.

<rip-instance-name>—Name of RIP instance.

<rip-neighbor-statistics>—RIP neighbor statistics.

<rip-restart-values>—Information about RIP restart values.

<rip-timer-values>—Information about RIP timer values.

<rip-message-statistics>

Usage

```
<rip-neighbor-statistics>
  <rip-message-statistics>
    <rip-message>rip-message</rip-message>
    <rip-message-total>rip-message-total</rip-message-total>
    <rip-message-last-5minutes>rip-message-last-5minutes
                  </rip-message-last-5minutes>
    <rip-message-last-minute>rip-message-last-minute</rip-message-last-minute>
  </rip-message-statistics>
</rip-neighbor-statistics>
```

Description No documentation is available yet.

Contents <rip-message>—No documentation is available yet.

<rip-message-last-5minutes>—Number of messages in the last 5 minutes.

<rip-message-last-minute>—Number of messages in the last minute.

<rip-message-total>—Total number of messages.

<rip-neighbor>

Usage

```
<rip-neighbor-information | rip-instance-neighbor>
  <rip-neighbor>
    <rip-neighbor-name>rip-neighbor-name</rip-neighbor-name>
    <rip-neighbor-state>rip-neighbor-state</rip-neighbor-state>
    <rip-neighbor-metric-in>rip-neighbor-metric-in</rip-neighbor-metric-in>
    <rip-local-address-ipv4>rip-local-address-ipv4</rip-local-address-ipv4>
    <rip-remote-address-ipv4>rip-remote-address-ipv4</rip-remote-address-ipv4>
    <send-mode-ripv2>send-mode-ripv2</send-mode-ripv2>
    <receive-mode-ripv2>receive-mode-ripv2</receive-mode-ripv2>
    <rip-local-address-ipv6>rip-local-address-ipv6</rip-local-address-ipv6>
    <rip-remote-address-ipv6>rip-remote-address-ipv6</rip-remote-address-ipv6>
    <send-mode-ripng>send-mode-ripng</send-mode-ripng>
    <receive-mode-ripng>receive-mode-ripng</receive-mode-ripng>
  </rip-neighbor>
</rip-neighbor-information | rip-instance-neighbor>
```

Description No documentation is available yet.

Contents

<receive-mode-ripng>—Receive state of the neighbor, which determines whether RIPng packets are accepted through that interface.

<receive-mode-ripv2>—Receive state of the neighbor, which determines which RIP packets are accepted. It is one of four values: (1) v1 only--only RIPv1 packets are received, (2) v2 only--only RIPv2 packets are received, (3) both--both RIPv1 and RIPv2 packets are received, or (4) none--no packets are received.

<rip-local-address-ipv4>—Local address of this neighbor (IPv4 address of the interface over which the protocol is configured).

<rip-local-address-ipv6>—Local address of this neighbor (IPv6 address of the interface over which the protocol is configured).

<rip-neighbor-metric-in>—Metric value to add to incoming routes. This is a value between 1 and 15.

<rip-neighbor-name>—Name of the interface over which the protocol is configured.

<rip-neighbor-state>—Whether neighbor is up or down.

<rip-remote-address-ipv4>—Remote address for this neighbor. If the neighbor is configured for broadcast mode, this is the broadcast address; otherwise, it is the RIP multicast address.

<rip-remote-address-ipv6>—Remote address of this neighbor (RIPng multicast address).

<send-mode-ripng>—Send state of the neighbor, which determines whether the neighbor sends RIPng updates.

<send-mode-ripv2>—Send state of the neighbor, which determines how RIP updates are sent. It is one of four values: (1) bcast--broadcast of RIPv2 packets (compatible with RIPv1), (2) mcast--multicast of RIPv2 packets, (3) v1--broadcast of RIPv1 packets, or (4) none--silent neighbor; no updates sent.

<rip-neighbor-information>

Usage
```
<rpc-reply>
  <rip-neighbor-information>
    <rip-neighbor>...</rip-neighbor>
  </rip-neighbor-information>
</rpc-reply>
```

Description Information about RIP neighbors in a routing instance.

Contents <rip-neighbor>—No documentation is available yet.

<rip-neighbor-information-all>

Usage
```
<rpc-reply>
  <rip-neighbor-information-all>
    <rip-instance-neighbor>...</rip-instance-neighbor>
  </rip-neighbor-information-all>
</rpc-reply>
```

Description Information about RIP neighbors in all routing instances.

Contents <rip-instance-neighbor>—Information about RIP neighbors within this routing instance.

<rip-neighbor-statistics>

Usage

```
<rip-statistics-information | rip-instance-statistics>
  <rip-neighbor-statistics>
    <rip-neighbor-name>rip-neighbor-name</rip-neighbor-name>
    <rip-neighbor-learnt-routes>rip-neighbor-learnt-routes
                </rip-neighbor-learnt-routes>
    <rip-neighbor-advertised-routes>rip-neighbor-advertised-routes
                </rip-neighbor-advertised-routes>
    <rip-neighbor-route-timeout>rip-neighbor-route-timeout
                </rip-neighbor-route-timeout>
    <rip-neighbor-update-interval>rip-neighbor-update-interval
                </rip-neighbor-update-interval>
    <rip-message-statistics>...</rip-message-statistics>
  </rip-neighbor-statistics>
</rip-statistics-information | rip-instance-statistics>
```

Description RIP neighbor statistics.

Contents <rip-message-statistics>—No documentation is available yet.

<rip-neighbor-advertised-routes>—Number of routes advertised by this neighbor.

<rip-neighbor-learnt-routes>—Number of routes learned by this neighbor.

<rip-neighbor-name>—Name of the interface over which the protocol is configured.

<rip-neighbor-route-timeout>—Timeout value for routes learned from this neighbor.

<rip-neighbor-update-interval>—Value of update interval timer for this neighbor.

<rip-restart-values>

Usage

```
<rip-statistics-information | rip-instance-statistics>
  <rip-restart-values>
    <rip-restart-state>rip-restart-state</rip-restart-state>
    <rip-restart-time>rip-restart-time</rip-restart-time>
    <rip-restart-timeout>rip-restart-timeout</rip-restart-timeout>
  </rip-restart-values>
</rip-statistics-information | rip-instance-statistics>
```

Description Information about RIP restart values.

Contents <rip-restart-state>—Indicates if graceful restart is in progress.

<rip-restart-time>—Restart time locally configured.

<rip-restart-timeout>—Time after which graceful restart is complete.

<rip-statistics-information>

Usage
```
<rpc-reply>
  <rip-statistics-information>
    <rip-timer-values>...</rip-timer-values>
    <rip-restart-values>...</rip-restart-values>
    <rip-global-statistics>...</rip-global-statistics>
    <rip-neighbor-statistics>...</rip-neighbor-statistics>
  </rip-statistics-information>
</rpc-reply>
```

Description Information about RIP statistics for a routing instance.

Contents <rip-global-statistics>—RIP global statistics.

<rip-neighbor-statistics>—RIP neighbor statistics.

<rip-restart-values>—Information about RIP restart values.

<rip-timer-values>—Information about RIP timer values.

<rip-statistics-information-all>

Usage
```
<rpc-reply>
  <rip-statistics-information-all>
    <rip-instance-statistics>...</rip-instance-statistics>
  </rip-statistics-information-all>
</rpc-reply>
```

Description Information about RIP statistics for all routing instances.

Contents <rip-instance-statistics>—Information about statistics for this routing instance.

<rip-timer-values>

Usage
```
<rip-statistics-information | rip-instance-statistics>
  <rip-timer-values>
    <rip-protocol-name>rip-protocol-name</rip-protocol-name>
    <rip-port>rip-port</rip-port>
    <rip-holddown>rip-holddown</rip-holddown>
  </rip-timer-values>
</rip-statistics-information | rip-instance-statistics>
```

Description Information about RIP timer values.

Contents <rip-holddown>—Value of the hold-down timer.

<rip-port>—Port on which the protocol is running.

<rip-protocol-name>—Protocol name for the subsequent information: either RIPv2 or RIPng.

<route-family>

Usage

```
<multicast-route-information>
  <route-family>
    <address-family>address-family</address-family>
    <multicast-route>...</multicast-route>
  </route-family>
</multicast-route-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<multicast-route>—No documentation is available yet.

<route-filter>

Usage

```
<rt-martians | unconfigured-peers>
  <route-filter>
    <address>address</address>
    <flags>flags</flags>
    <extended-information>extended-information</extended-information>
  </route-filter>
</rt-martians | unconfigured-peers>
```

Description Entries in martian table.

Contents <address>—No documentation is available yet.

<extended-information>—No documentation is available yet.

<flags>—Enabled trace flags.

<route-flap-damping>

Usage

```
<rt-entry>
  <route-flap-damping>
    <merit>merit</merit>
    <last-merit>last-merit</last-merit>
    <damping-parameters>damping-parameters</damping-parameters>
    <default-damping-parameters/>
    <last-update>last-update</last-update>
    <first-update>first-update</first-update>
    <route-flap-count>route-flap-count</route-flap-count>
    <suppressed/>
    <reuse-time>reuse-time</reuse-time>
    <reuse-preference>reuse-preference</reuse-preference>
    <expire-time>expire-time</expire-time>
  </route-flap-damping>
</rt-entry>
```

Description No documentation is available yet.

Contents

<damping-parameters>—No documentation is available yet.

<default-damping-parameters>—Default damping parameters used.

<expire-time>—Time when this damping entry expires.

<first-update>—No documentation is available yet.

<last-merit>—Last merit value.

<last-update>—No documentation is available yet.

<merit>—Current merit value.

<reuse-preference>—Preference to use when this route is reused.

<reuse-time>—Time until this route is reusable.

<route-flap-count>—Number of times this route has flapped.

<suppressed>—This route is suppressed.

<route-information>

Usage

```
<rpc-reply>
  <route-information>
    <as-number>as-number</as-number>
    <router-id>router-id</router-id>
    <route-table>...</route-table>
    <rt-martians>...</rt-martians>
    <rt-ribgroup>...</rt-ribgroup>
    <rt-test-policy-prefix>...</rt-test-policy-prefix>
    <rt-test-policy>...</rt-test-policy>
  </route-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <as-number>—No documentation is available yet.

<route-table>—No documentation is available yet.

<router-id>—No documentation is available yet.

<rt-martians>—No documentation is available yet.

<rt-ribgroup>—No documentation is available yet.

<rt-test-policy>—No documentation is available yet.

<rt-test-policy-prefix>—No documentation is available yet.

<route-queue>

Usage

```
<bgp-peer | bgp-group>
  <route-queue>
    <timer>timer</timer>
    <state>state</state>
    <element>element</element>
  </route-queue>
</bgp-peer | bgp-group>
```

Description No documentation is available yet.

Contents <element>—No documentation is available yet.

<state>—No documentation is available yet.

<timer>—No documentation is available yet.

<route-resolution-information>

Usage

```
<rpc-reply>
  <route-resolution-information>
    <route-resolution-tree>...</route-resolution-tree>
  </route-resolution-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <route-resolution-tree>—No documentation is available yet.

<route-resolution-tree>

Usage

```
<route-resolution-information>
  <route-resolution-tree>
    <tree-index>tree-index</tree-index>
    <nodes>nodes</nodes>
    <tree-reference-count>tree-reference-count</tree-reference-count>
    <tree-contributing-ribs>tree-contributing-ribs</tree-contributing-ribs>
    <tree-policy>tree-policy</tree-policy>
    <node>...</node>
  </route-resolution-tree>
</route-resolution-information>
```

Description No documentation is available yet.

Contents <node>—No documentation is available yet.

<nodes>—Number of resolution nodes in the tree.

<tree-contributing-ribs>—Name of routing table inserting routes in the tree.

<tree-index>—Index of the resolution tree.

<tree-policy>—Import policy on the tree.

<tree-reference-count>—Reference count on the tree.

<route-summary-information>

Usage

```
<rpc-reply>
  <route-summary-information>
    <as-number>as-number</as-number>
    <router-id>router-id</router-id>
    <route-table>...</route-table>
  </route-summary-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <as-number>—No documentation is available yet.

<route-table>—No documentation is available yet.

<router-id>—No documentation is available yet.

<route-table>

Usage

```
<route-information | route-summary-information>
  <route-table>
    <protocols>...</protocols>
    <table-name>table-name</table-name>
    <destination-count>destination-count</destination-count>
    <total-route-count>total-route-count</total-route-count>
    <active-route-count>active-route-count</active-route-count>
    <holddown-route-count>holddown-route-count</holddown-route-count>
    <hidden-route-count>hidden-route-count</hidden-route-count>
    <restart-state>restart-state</restart-state>
    <rt>...</rt>
  </route-table>
</route-information | route-summary-information>
```

Description No documentation is available yet.

Contents <active-route-count>—Active routes.

<destination-count>—Number of destinations in this rib.

<hidden-route-count>—No documentation is available yet.

<holddown-route-count>—No documentation is available yet.

<protocols>—No documentation is available yet.

<restart-state>—No documentation is available yet.

<rt>—No documentation is available yet.

<table-name>—Unicast routing table.

<total-route-count>—No documentation is available yet.

<router-id-tlv>

Usage

```
<isis-tlv>
  <router-id-tlv>
    <router-id>router-id</router-id>
  </router-id-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <router-id>—No documentation is available yet.

<rp-family>

Usage

```
<pim-rps-information>
  <rp-family>
    <address-family>address-family</address-family>
    <rendezvous-point>...</rendezvous-point>
  </rp-family>
</pim-rps-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<rendezvous-point>—No documentation is available yet.

<rpf-family>

Usage

```
<multicast-rpf-information>
  <rpf-family>
    <address-family>address-family</address-family>
    <rpf-table-name>rpf-table-name</rpf-table-name>
    <rpf-table-entry-count>rpf-table-entry-count</rpf-table-entry-count>
    <rpf-route>...</rpf-route>
  </rpf-family>
</multicast-rpf-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<rpf-route>—No documentation is available yet.

<rpf-table-entry-count>—No documentation is available yet.

<rpf-table-name>—No documentation is available yet.

<rpf-route>

Usage

```
<rpf-family>
  <rpf-route>
    <prefix>prefix</prefix>
    <rpf-route-inactive/>
    <rpf-route-protocol>rpf-route-protocol</rpf-route-protocol>
    <interface-name>interface-name</interface-name>
    <rpf-route-neighbor>rpf-route-neighbor</rpf-route-neighbor>
  </rpf-route>
</rpf-family>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<prefix>—No documentation is available yet.

<rpf-route-inactive>—No documentation is available yet.

<rpf-route-neighbor>—No documentation is available yet.

<rpf-route-protocol>—No documentation is available yet.

<rsvp-error>

Usage

```
<rsvp-statistics-information>
  <rsvp-error>
    <error-message>error-message</error-message>
    <error-count>error-count</error-count>
    <error-count-5seconds>error-count-5seconds</error-count-5seconds>
  </rsvp-error>
</rsvp-statistics-information>
```

Description No documentation is available yet.

Contents <error-count>—Total number of errors encountered.

<error-count-5seconds>—Number of errors encountered in the last 5 seconds.

<error-message>—No documentation is available yet.

<rsvp-graceful-restart>

Usage

```
<rsvp-neighbor | rsvp-replication-neighbor | rsvp-version>
  <rsvp-graceful-restart>
    <restart-status>restart-status</restart-status>
    <helper-status>helper-status</helper-status>
    <maximum-helper-restart-time>maximum-helper-restart-time
                </maximum-helper-restart-time>
    <maximum-helper-recovery-time>maximum-helper-recovery-time
                </maximum-helper-recovery-time>
    <restart-time>restart-time</restart-time>
    <recovery-time>recovery-time</recovery-time>
  </rsvp-graceful-restart>
</rsvp-neighbor | rsvp-replication-neighbor | rsvp-version>
```

Description No documentation is available yet.

Contents <helper-status>—No documentation is available yet.

<maximum-helper-recovery-time>—Maximum state re-synchronization time for restarting neighbor.

<maximum-helper-restart-time>—Maximum wait time from down event to neighbor dead.

<recovery-time>—Recovery time advertised.

<restart-status>—No documentation is available yet.

<restart-time>—Restart time advertised.

<rsvp-interface>

Usage

```
<rsvp-interface-information>
  <rsvp-interface>
    <interface-name>interface-name</interface-name>
    <rsvp-status>rsvp-status</rsvp-status>
    <active-control-channel>active-control-channel</active-control-channel>
    <control-channel-unusable/>
    <index>index</index>
    <authentication-flag>authentication-flag</authentication-flag>
    <aggregate-flag>aggregate-flag</aggregate-flag>
    <ack-flag>ack-flag</ack-flag>
    <protect-flag>protect-flag</protect-flag>
    <hello-interval>hello-interval</hello-interval>
    <forward-rsvp/>
    <interface-address>interface-address</interface-address>
    <loopback-address>loopback-address</loopback-address>
    <rsvp-telink>...</rsvp-telink>
    <message-statistics>...</message-statistics>
    <bypass-info>...</bypass-info>
    <cos-info>...</cos-info>
  </rsvp-interface>
</rsvp-interface-information>
```

Description No documentation is available yet.

Contents

<ack-flag>—No documentation is available yet.

<active-control-channel>—Currently active control channel for the peer.

<aggregate-flag>—No documentation is available yet.

<authentication-flag>—No documentation is available yet.

<bypass-info>—No documentation is available yet.

<control-channel-unusable>—Control channel does not have RSVP enabled on it.

<cos-info>—No documentation is available yet.

<forward-rsvp>—Allow forwarding of incoming RSVP messages on this interface when RSVP is disabled on the interface.

<hello-interval>—Rate at which RSVP hellos are sent out. Default is 3 seconds.

<index>—No documentation is available yet.

<interface-address>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<loopback-address>—No documentation is available yet.

<message-statistics>—Statistics per RSVP message type.

<protect-flag>—No documentation is available yet.

<rsvp-status>—Whether RSVP has been enabled, whether an RSVP interface is up or down, or whether aggregation of messages is supported.

<rsvp-telink>—No documentation is available yet.

<rsvp-interface-information>

Usage

```
<rpc-reply>
  <rsvp-interface-information>
    <active-count>active-count</active-count>
    <rsvp-interface>...</rsvp-interface>
  </rsvp-interface-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <active-count>—Number of active RSVP interfaces.

<rsvp-interface>—No documentation is available yet.

<rsvp-interface-replication-information>

Usage

```
<rpc-reply>
  <rsvp-interface-replication-information>
    <rsvp-replication-te-link>...</rsvp-replication-te-link>
  </rsvp-interface-replication-information>
</rpc-reply>
```

Description Information about one or more replicated RSVP traffic-engineering links.

Contents <rsvp-replication-te-link>—Information about a replicated traffic-engineering link.

<rsvp-neighbor>

Usage

```
<rsvp-neighbor-information>
  <rsvp-neighbor>
    <rsvp-neighbor-address>rsvp-neighbor-address</rsvp-neighbor-address>
    <rsvp-neighbor-interface>rsvp-neighbor-interface</rsvp-neighbor-interface>
    <rsvp-neighbor-status>rsvp-neighbor-status</rsvp-neighbor-status>
    <rsvp-neighbor-remote/>
    <neighbor-idle>neighbor-idle</neighbor-idle>
    <neighbor-up-count>neighbor-up-count</neighbor-up-count>
    <neighbor-down-count>neighbor-down-count</neighbor-down-count>
    <last-changed-time>last-changed-time</last-changed-time>
    <hello-interval>hello-interval</hello-interval>
    <hellos-sent>hellos-sent</hellos-sent>
    <hellos-received>hellos-received</hellos-received>
    <messages-received>messages-received</messages-received>
    <rsvp-neighbor-remote-instance>rsvp-neighbor-remote-instance
            </rsvp-neighbor-remote-instance>
    <rsvp-neighbor-local-instance>rsvp-neighbor-local-instance
            </rsvp-neighbor-local-instance>
    <rsvp-message>rsvp-message</rsvp-message>
    <rsvp-refresh-reduct-status>rsvp-refresh-reduct-status
            </rsvp-refresh-reduct-status>
    <rsvp-refresh-reduct-remote-status>rsvp-refresh-reduct-remote-status
            </rsvp-refresh-reduct-remote-status>
    <rsvp-refresh-reduct-ack-status>rsvp-refresh-reduct-ack-status
            </rsvp-refresh-reduct-ack-status>
    <rsvp-graceful-restart>...</rsvp-graceful-restart>
  </rsvp-neighbor>
</rsvp-neighbor-information>
```

Description No documentation is available yet.

Contents

<hello-interval>—Rate at which RSVP hellos are sent out. Default is 3 seconds.

<hellos-received>—Number of hellos received.

<hellos-sent>—Number of hellos sent.

<last-changed-time>—Time this neighbor last changed state.

<messages-received>—Total number of messages received.

<neighbor-down-count>—Number of times neighbor went down.

<neighbor-idle>—Length of time this neighbor has been idle.

<neighbor-up-count>—Number of times neighbor came up.

<rsvp-graceful-restart>—No documentation is available yet.

<rsvp-message>—No documentation is available yet.

<rsvp-neighbor-address>—No documentation is available yet.

<rsvp-neighbor-interface>—Local interface name.

<rsvp-neighbor-local-instance>—Local instance.

<rsvp-neighbor-remote>—The address is an RSVP remote neighbor for the endpoint of a backup LSP that was created because of a link or node failure for facility-based protection. A remote neighbor is deleted if the local node does not receive RSVP messages from it for 180 seconds.

<rsvp-neighbor-remote-instance>—Remote instance.

<rsvp-neighbor-status>—No documentation is available yet.

<rsvp-refresh-reduct-ack-status>—No documentation is available yet.

<rsvp-refresh-reduct-remote-status>—No documentation is available yet.

<rsvp-refresh-reduct-status>—No documentation is available yet.

<rsvp-neighbor-information>

Usage

```
<rpc-reply>
  <rsvp-neighbor-information>
    <rsvp-neighbor-count>rsvp-neighbor-count</rsvp-neighbor-count>
    <rsvp-neighbor>...</rsvp-neighbor>
  </rsvp-neighbor-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rsvp-neighbor>—No documentation is available yet.

<rsvp-neighbor-count>—Number of RSVP neighbors learned.

<rsvp-neighbor-replication-information>

Usage

```
<rpc-reply>
  <rsvp-neighbor-replication-information>
    <rsvp-replication-neighbor>...</rsvp-replication-neighbor>
  </rsvp-neighbor-replication-information>
</rpc-reply>
```

Description Information about one or more RSVP replication neighbors.

Contents <rsvp-replication-neighbor>—Replication information for an RSVP neighbor.

<rsvp-path-state-replication-information>

Usage
```
<rpc-reply>
  <rsvp-path-state-replication-information>
    <rsvp-replication-path-state>...</rsvp-replication-path-state>
  </rsvp-path-state-replication-information>
</rpc-reply>
```

Description Information about one or more replicated RSVP PATH state blocks.

Contents <rsvp-replication-path-state>—Information about a replicated RSVP PATH state block.

<rsvp-replication-neighbor>

Usage
```
<rsvp-neighbor-replication-information>
  <rsvp-replication-neighbor>
    <replication-neighbor-address>replication-neighbor-address
            </replication-neighbor-address>
    <neighbor-interface>neighbor-interface</neighbor-interface>
    <neighbor-status>neighbor-status</neighbor-status>
    <replication-neighbor-up-count>replication-neighbor-up-count
            </replication-neighbor-up-count>
    <neighbor-flags>neighbor-flags</neighbor-flags>
    <neighbor-replication-sync-status>neighbor-replication-sync-status
            </neighbor-replication-sync-status>
    <neighbor-remote-instance>neighbor-remote-instance</neighbor-remote-instance>
    <neighbor-local-instance>neighbor-local-instance</neighbor-local-instance>
    <rsvp-graceful-restart>...</rsvp-graceful-restart>
  </rsvp-replication-neighbor>
</rsvp-neighbor-replication-information>
```

Description Replication information for an RSVP neighbor.

Contents <neighbor-flags>—Neighbor flags.

<neighbor-interface>—Local interface ID.

<neighbor-local-instance>—Local instance.

<neighbor-remote-instance>—Remote instance.

<neighbor-replication-sync-status>—Neighbor replication synchronization status.

<neighbor-status>—Status of neighbor.

<replication-neighbor-address>—Neighbor address.

<replication-neighbor-up-count>—Number of times neighbor came up.

<rsvp-graceful-restart>—No documentation is available yet.

<rsvp-replication-path-state>

Usage

```
<rsvp-path-state-replication-information>
  <rsvp-replication-path-state>
    <path-state-address>path-state-address</path-state-address>
    <path-state-interface-id>path-state-interface-id</path-state-interface-id>
    <path-state-session-id>path-state-session-id</path-state-session-id>
    <path-state-id>path-state-id</path-state-id>
    <path-state-self-id>path-state-self-id</path-state-self-id>
    <path-state-tag>path-state-tag</path-state-tag>
    <path-state-rr-epoch>path-state-rr-epoch</path-state-rr-epoch>
    <path-state-resv-msg-id>path-state-resv-msg-id</path-state-resv-msg-id>
    <path-state-nh-type>path-state-nh-type</path-state-nh-type>
    <path-state-nh-outgoing-interface>path-state-nh-outgoing-interface
            </path-state-nh-outgoing-interface>
    <path-state-nh-upstream-tag>path-state-nh-upstream-tag
            </path-state-nh-upstream-tag>
    <path-state-nh-te-link-id>path-state-nh-te-link-id</path-state-nh-te-link-id>
    <path-state-nh-peer-address>path-state-nh-peer-address
            </path-state-nh-peer-address>
    <path-state-nh-avoid-address>path-state-nh-avoid-address
            </path-state-nh-avoid-address>
    <path-state-nh-ero>path-state-nh-ero</path-state-nh-ero>
    <path-state-nh-msg-id>path-state-nh-msg-id</path-state-nh-msg-id>
  </rsvp-replication-path-state>
</rsvp-path-state-replication-information>
```

Description Information about a replicated RSVP PATH state block.

Contents <path-state-address>—IP address of the originator.

<path-state-id>—ID.

<path-state-interface-id>—Interface ID.

<path-state-nh-avoid-address>—IP address to avoid while computing bypass.

<path-state-nh-ero>—Next-hop Explicit Route Object.

<path-state-nh-msg-id>—Message id for outbound Path message.

<path-state-nh-outgoing-interface>—Outgoing interface.

<path-state-nh-peer-address>—IP address of the next-hop peer.

<path-state-nh-te-link-id>—TE link ID.

<path-state-nh-type>—Next-hop type.

<path-state-nh-upstream-tag>—Label value sent upstream.

<path-state-resv-msg-id>—Message id for outbound Resv message.

<path-state-rr-epoch>—Epoch for replicated message ids.

<path-state-self-id>—Self ID.

<path-state-session-id>—Session ID.

<path-state-tag>—Path state block tag.

<rsvp-replication-resv-state>

Usage
```
<rsvp-resv-state-replication-information>
  <rsvp-replication-resv-state>
    <resv-state-interface-id>resv-state-interface-id</resv-state-interface-id>
    <resv-state-session-id>resv-state-session-id</resv-state-session-id>
    <resv-state-self-id>resv-state-self-id</resv-state-self-id>
  </rsvp-replication-resv-state>
</rsvp-resv-state-replication-information>
```

Description Information about replicated RESV state block.

Contents <resv-state-interface-id>—Interface ID.

<resv-state-self-id>—Self ID.

<resv-state-session-id>—Session ID.

<rsvp-replication-session>

Usage
```
<rsvp-session-replication-information>
  <rsvp-replication-session>
    <destination-address>destination-address</destination-address>
    <source-address>source-address</source-address>
    <label-in>label-in</label-in>
    <path-state-id>path-state-id</path-state-id>
    <session-id>session-id</session-id>
    <name>name</name>
    <replication-state>replication-state</replication-state>
  </rsvp-replication-session>
</rsvp-session-replication-information>
```

Description Information about a replicated RSVP session.

Contents <destination-address>—Session destination address.

<label-in>—Incoming label.

<name>—No documentation is available yet.

<path-state-id>—ID.

<replication-state>—Session replication state.

<session-id>—Unique identifier for RSVP session.

<source-address>—No documentation is available yet.

<rsvp-replication-te-link>

Usage

```
<rsvp-interface-replication-information>
  <rsvp-replication-te-link>
    <te-link-id>te-link-id</te-link-id>
    <te-link-interface-id>te-link-interface-id</te-link-interface-id>
    <te-link-reference-count>te-link-reference-count</te-link-reference-count>
  </rsvp-replication-te-link>
</rsvp-interface-replication-information>
```

Description Information about a replicated traffic-engineering link.

Contents <te-link-id>—Link identifier.

<te-link-interface-id>—Local interface ID.

<te-link-reference-count>—Reference count.

<rsvp-resv-state-replication-information>

Usage

```
<rpc-reply>
  <rsvp-resv-state-replication-information>
    <rsvp-replication-resv-state>...</rsvp-replication-resv-state>
  </rsvp-resv-state-replication-information>
</rpc-reply>
```

Description Information about one or more replicated RSVP RESV state blocks.

Contents <rsvp-replication-resv-state>—Information about replicated RESV state block.

<rsvp-session>

Usage

```
<rsvp-session-data>
  <rsvp-session>
    <destination-address>destination-address</destination-address>
    <is-detour/>
    <source-address>source-address</source-address>
    <lsp-state>lsp-state</lsp-state>
    <lsp-pktbytes>lsp-pktbytes</lsp-pktbytes>
    <bypass-name>bypass-name</bypass-name>
    <no-statistics/>
    <route-count>route-count</route-count>
    <rsb-count>rsb-count</rsb-count>
    <resv-style>resv-style</resv-style>
    <label-in>label-in</label-in>
    <label-out>label-out</label-out>
    <name>name</name>
    <mpls-p2mp-lsp-name>mpls-p2mp-lsp-name</mpls-p2mp-lsp-name>
    <lsp-path-type>lsp-path-type</lsp-path-type>
    <lsp-aggregation>lsp-aggregation</lsp-aggregation>
    <graceful-deletion-triggered/>
    <source-tna-address>source-tna-address</source-tna-address>
    <destination-tna-address>destination-tna-address</destination-tna-address>
    <bidirectional/>
    <upstream-label-in>upstream-label-in</upstream-label-in>
    <upstream-label-out>upstream-label-out</upstream-label-out>
    <suggested-label-in>suggested-label-in</suggested-label-in>
    <suggested-label-out>suggested-label-out</suggested-label-out>
    <recovery-label-in>recovery-label-in</recovery-label-in>
    <recovery-label-out>recovery-label-out</recovery-label-out>
    <psb-lifetime>psb-lifetime</psb-lifetime>
    <psb-creation-time>psb-creation-time</psb-creation-time>
    <path-mtu>path-mtu</path-mtu>
    <path-mtu-in-kernel>path-mtu-in-kernel</path-mtu-in-kernel>
    <sender-tspec>sender-tspec</sender-tspec>
    <layer2-tspec>...</layer2-tspec>
    <adspec>adspec</adspec>
    <ct-bw>ct-bw</ct-bw>
    <lsp-diffserv-info>lsp-diffserv-info</lsp-diffserv-info>
    <lsp-id>lsp-id</lsp-id>
    <tunnel-id>tunnel-id</tunnel-id>
    <proto-id>proto-id</proto-id>
    <self-id>self-id</self-id>
    <session-id>session-id</session-id>
    <is-fastreroute/>
    <is-linkprotection/>
    <is-nodeprotection/>
    <is-soft-preemption/>
    <rsvp-path-status>rsvp-path-status</rsvp-path-status>
    <rsvp-lp-backup-route-cnt>rsvp-lp-backup-route-cnt</rsvp-lp-backup-route-cnt>
    <rsvp-lp-backup-lsp-cnt>rsvp-lp-backup-lsp-cnt</rsvp-lp-backup-lsp-cnt>
    <packet-information>...</packet-information>
    <explicit-route>...</explicit-route>
    <record-route>...</record-route>
```

```
    <lp-history>...</lp-history>
    <rsvp-telink>...</rsvp-telink>
    <detour>...</detour>
    <detour-branch>...</detour-branch>
    <mpls-lsp>...</mpls-lsp>
  </rsvp-session>
</rsvp-session-data>
```

Description Single RSVP session.

Contents <adspec>—Adspec data element in an RSVP Path message.

<bidirectional>—LSP is bidirectional.

<bypass-name>—Name of the bypass.

<ct-bw>—Per-class bandwidth requested for E-LSPs and L-LSPs.

<destination-address>—Session destination address.

<destination-tna-address>—Destination TNA address for the connection.

<detour>—Detour that originated at this LSR.

<detour-branch>—Detour that originated at some other LSR.

<explicit-route>—Explicit Route Object (ERO).

<graceful-deletion-triggered>—Initiated graceful deletion procedure for the LSP.

<is-detour>—Session is a detour session.

<is-fastreroute>—Detours will be established for an LSP so that if a node or link in the LSP fails, the traffic on the LSP can be rerouted with minimal packet loss.

<is-linkprotection>—Protect links via bypass LSPs.

<is-nodeprotection>—Protect link/node via bypass LSPs.

<is-soft-preemption>—Attempt make-before-break service while preempting this LSP.

<label-in>—Incoming label.

<label-out>—Outgoing label.

<layer2-tspec>—Layer 2 TSpec.

<lp-history>—Log of LSP path-related events.

<lsp-aggregation>—Supports LSP aggregation.

<lsp-diffserv-info>—LSP DiffServ info.

<lsp-id>—LSP ID or source port for some sender. It is unique to every sender or LSP.

<lsp-path-type>—Primary or secondary LSP path.

<lsp-pktbytes>—No documentation is available yet.

<lsp-state>—State of an LSP.

<mpls-lsp>—MPLS label-switched path information.

<mpls-p2mp-lsp-name>—No documentation is available yet.

<name>—No documentation is available yet.

<no-statistics>—No statistics are available for this session.

<packet-information>—RSVP packets sent or received per session.

<path-mtu>—The value of the path MTU, as negotiated by the network.

<path-mtu-in-kernel>—The value of the MTU used locally for forwarding.

<proto-id>—No documentation is available yet.

<psb-creation-time>—Time when this PSB was created.

<psb-lifetime>—Timer that maintains the soft state of a PSB.

<record-route>—Record Route Object (RRO).

<recovery-label-in>—No documentation is available yet.

<recovery-label-out>—No documentation is available yet.

<resv-style>—Reservation style (FF or SE).

<route-count>—Number of active routes.

<rsb-count>—Number of RSBs.

<rsvp-lp-backup-lsp-cnt>—Number of backup RSVP LSPs tunneled through this bypass.

<rsvp-lp-backup-route-cnt>—Number of routes tunneled through this bypass.

<rsvp-path-status>—No documentation is available yet.

<rsvp-telink>—No documentation is available yet.

<self-id>—Statistics identifier for RSVP path state control block.

<sender-tspec>—Sender TSpec.

<session-id>—Unique identifier for RSVP session.

<source-address>—No documentation is available yet.

<source-tna-address>—Source TNA address for the connection.

<suggested-label-in>—Suggested label received.

<suggested-label-out>—Suggested label sent.

<tunnel-id>—Tunnel ID or destination port for this session. It is unique to every session.

<upstream-label-in>—Incoming upstream label.

<upstream-label-out>—Outgoing upstream label.

<rsvp-session-data>

Usage

```
<rsvp-session-information | mpls-lsp-information>
  <rsvp-session-data>
    <session-type>session-type</session-type>
    <count>count</count>
    <display-count>display-count</display-count>
    <up-count>up-count</up-count>
    <down-count>down-count</down-count>
    <detours>detours</detours>
    <rsvp-session>...</rsvp-session>
    <mpls-p2mp-lsp>...</mpls-p2mp-lsp>
  </rsvp-session-data>
</rsvp-session-information | mpls-lsp-information>
```

Description No documentation is available yet.

Contents <count>—Number of entries.

<detours>—Number of detour sessions.

<display-count>—Number of sessions displayed.

<down-count>—Number of sessions in down state.

<mpls-p2mp-lsp>—No documentation is available yet.

<rsvp-session>—Single RSVP session.

<session-type>—Whether the router is at the ingress, egress, or transit for this session.

<up-count>—Number of sessions in up state.

<rsvp-session-information>

Usage

```
<rpc-reply>
  <rsvp-session-information>
    <rsvp-session-data>...</rsvp-session-data>
  </rsvp-session-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rsvp-session-data>—No documentation is available yet.

<rsvp-session-replication-information>

Usage

```
<rpc-reply>
  <rsvp-session-replication-information>
    <rsvp-replication-session>...</rsvp-replication-session>
  </rsvp-session-replication-information>
</rpc-reply>
```

Description Information about one or more replicated RSVP sessions.

Contents <rsvp-replication-session>—Information about a replicated RSVP session.

<rsvp-statistics-information>

Usage

```
<rpc-reply>
  <rsvp-statistics-information>
    <message-statistics>...</message-statistics>
    <rsvp-error>...</rsvp-error>
  </rsvp-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <message-statistics>—Statistics per RSVP message type.

<rsvp-error>—No documentation is available yet.

<rsvp-telink>

Usage

```
<rsvp-session | rsvp-interface>
  <rsvp-telink>
    <telink-name>telink-name</telink-name>
    <telink-local-id>telink-local-id</telink-local-id>
    <telink-state>telink-state</telink-state>
    <active-reservation>active-reservation</active-reservation>
    <subscription>subscription</subscription>
    <ct-subscription>ct-subscription</ct-subscription>
    <static-bandwidth>static-bandwidth</static-bandwidth>
    <available-bandwidth>available-bandwidth</available-bandwidth>
    <max-available-bandwidth>max-available-bandwidth</max-available-bandwidth>
    <max-available-description>max-available-description
                    </max-available-description>
    <static-bc-bandwidth>static-bc-bandwidth</static-bc-bandwidth>
    <total-reserved-bandwidth>total-reserved-bandwidth</total-reserved-bandwidth>
    <bc>bc</bc>
    <bc-description>bc-description</bc-description>
    <ct-class>ct-class</ct-class>
    <ct-bw0>ct-bw0</ct-bw0>
    <ct-bw1>ct-bw1</ct-bw1>
    <ct-bw2>ct-bw2</ct-bw2>
    <ct-bw3>ct-bw3</ct-bw3>
    <ct-bw4>ct-bw4</ct-bw4>
    <ct-bw5>ct-bw5</ct-bw5>
    <ct-bw6>ct-bw6</ct-bw6>
    <ct-bw7>ct-bw7</ct-bw7>
    <high-watermark>high-watermark</high-watermark>
    <preemption-count>preemption-count</preemption-count>
    <soft-preemption-count>soft-preemption-count</soft-preemption-count>
    <soft-preemption-pending>soft-preemption-pending</soft-preemption-pending>
    <update-threshold>update-threshold</update-threshold>
    <reserved-bandwidth>...</reserved-bandwidth>
    <reserved-ct-bandwidth>...</reserved-ct-bandwidth>
    <detour-bandwidth>...</detour-bandwidth>
    <overbooked-bandwidth>...</overbooked-bandwidth>
    <overbooked-ct-bandwidth>...</overbooked-ct-bandwidth>
  </rsvp-telink>
</rsvp-session | rsvp-interface>
```

Description No documentation is available yet.

Contents <active-reservation>—Number of active reservations.

<available-bandwidth>—Amount of bandwidth available for reservations.

<bc>—Bandwidth constraint (0..7).

<bc-description>—Description of the bandwidth constraint.

<ct-bw0>—No documentation is available yet.

<ct-bw1>—No documentation is available yet.

<ct-bw2>—No documentation is available yet.

<ct-bw3>—No documentation is available yet.

<ct-bw4>—No documentation is available yet.

<ct-bw5>—No documentation is available yet.

<ct-bw6>—No documentation is available yet.

<ct-bw7>—No documentation is available yet.

<ct-class>—Class type (0..7).

<ct-subscription>—Subscription percentage per traffic class.

<detour-bandwidth>—Bandwidth reserved on detour at different priority levels.

<high-watermark>—Maximum bandwidth that was ever reserved.

<max-available-bandwidth>—Maximum amount of bandwidth available for reservations, including the subscription factor.

<max-available-description>—Description of the computation of the maximum available bandwidth.

<overbooked-bandwidth>—Bandwidth overbooked at different priority levels.

<overbooked-ct-bandwidth>—Bandwidth overbooked at different class/priority levels.

<preemption-count>—Number of preemptions that occurred on an interface.

<reserved-bandwidth>—Bandwidth reserved at different priority levels.

<reserved-ct-bandwidth>—Bandwidth reserved at different class and priority levels.

<soft-preemption-count>—Number of soft preemptions that occurred on an interface.

<soft-preemption-pending>—Number of soft preemptions pending on an interface.

<static-bandwidth>—Static bandwidth capacity of the link.

<static-bc-bandwidth>—Static bandwidth capacity for a bandwidth constraint.

<subscription>—Percentage of link capacity available for bandwidth reservations.

<telink-local-id>—Local identifier of TE link.

<telink-name>—Name of the TE link.

<telink-state>—State of the TE link.

<total-reserved-bandwidth>—Total amount of bandwidth currently reserved.

<update-threshold>—Percentage change in reserved bandwidth to trigger IGP update.

<rsvp-version>

Usage

```
<rsvp-version-information>
  <rsvp-version>
    <rsvp-status>rsvp-status</rsvp-status>
    <rsvp-restart-flag>rsvp-restart-flag</rsvp-restart-flag>
    <refresh-timer>refresh-timer</refresh-timer>
    <keep-multiplier>keep-multiplier</keep-multiplier>
    <preemption-type>preemption-type</preemption-type>
    <soft-preemption-cleanup-timer>soft-preemption-cleanup-timer
                </soft-preemption-cleanup-timer>
    <graceful-deletion-timeout>graceful-deletion-timeout
                </graceful-deletion-timeout>
    <rsvp-nsr-mode>rsvp-nsr-mode</rsvp-nsr-mode>
    <rsvp-nsr-state>rsvp-nsr-state</rsvp-nsr-state>
    <rsvp-graceful-restart>...</rsvp-graceful-restart>
  </rsvp-version>
</rsvp-version-information>
```

Description No documentation is available yet.

Contents

<graceful-deletion-timeout>—Maximum wait time for graceful deletion signaling to complete after which forced deletion will be initiated.

<keep-multiplier>—A measure of the number of RSVP message losses that can be tolerated before a state is timed out. Default is 3.

<preemption-type>—Type of preemption scheme.

<refresh-timer>—Indicates the rate at which RSVP refresh messages (Path and Resv) are sent out to maintain the soft state. Default is 30 seconds.

<rsvp-graceful-restart>—No documentation is available yet.

<rsvp-nsr-mode>—RSVP nonstop-routing mode.

<rsvp-nsr-state>—RSVP nonstop-routing state.

<rsvp-restart-flag>—RSVP restart is in progress.

<rsvp-status>—Whether RSVP has been enabled, whether an RSVP interface is up or down, or whether aggregation of messages is supported.

<soft-preemption-cleanup-timer>—The time after which soft-preempted LSPs will be removed.

<rsvp-version-information>

Usage

```
<rpc-reply>
  <rsvp-version-information>
    <rsvp-version>...</rsvp-version>
  </rsvp-version-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rsvp-version>—No documentation is available yet.

<rt>

Usage

```
<route-table>
  <rt>
    <rt-destination>rt-destination</rt-destination>
    <rt-prefix-length>rt-prefix-length</rt-prefix-length>
    <rt-entry-count>rt-entry-count</rt-entry-count>
    <rt-announced-count>rt-announced-count</rt-announced-count>
    <rt-state>rt-state</rt-state>
    <rt-entry>...</rt-entry>
    <tsi>tsi</tsi>
    <communities>...</communities>
  </rt>
</route-table>
```

Description No documentation is available yet.

Contents <communities>—No documentation is available yet.

<rt-announced-count>—Number of announced route entries.

<rt-destination>—No documentation is available yet.

<rt-entry>—No documentation is available yet.

<rt-entry-count>—Number of route entries in this route.

<rt-prefix-length>—No documentation is available yet.

<rt-state>—State of this route.

<tsi>—Task-specific information.

<rt-entry>

Usage

```
<rt>
  <rt-entry>
    <active-tag>active-tag</active-tag>
    <last-active/>
    <current-active/>
    <protocol-name>protocol-name</protocol-name>
    <preference>preference</preference>
    <preference2>preference2</preference2>
    <route-distinguisher>route-distinguisher</route-distinguisher>
    <pmsi>pmsi</pmsi>
    <color>color</color>
    <rt-isis-level>rt-isis-level</rt-isis-level>
    <color2>color2</color2>
    <rt-isis-downbit>rt-isis-downbit</rt-isis-downbit>
    <age>age</age>
    <metric>metric</metric>
    <metric2>metric2</metric2>
    <med-plus-igp>med-plus-igp</med-plus-igp>
    <rt-tag>rt-tag</rt-tag>
    <rt-tag2>rt-tag2</rt-tag2>
    <rt-ospf-area>rt-ospf-area</rt-ospf-area>
    <learned-from>learned-from</learned-from>
    <peer-as>peer-as</peer-as>
    <local-as>local-as</local-as>
    <rt-entry-state>rt-entry-state</rt-entry-state>
    <inactive-reason>inactive-reason</inactive-reason>
    <task-name>task-name</task-name>
    <announce-bits>announce-bits</announce-bits>
    <announce-tasks>announce-tasks</announce-tasks>
    <bgp-rt-flag>bgp-rt-flag</bgp-rt-flag>
    <label-base>label-base</label-base>
    <label-range>label-range</label-range>
    <l2vpn-status-vector>l2vpn-status-vector</l2vpn-status-vector>
    <vc-label>vc-label</vc-label>
    <mtu>mtu</mtu>
    <cell-bundle-size>cell-bundle-size</cell-bundle-size>
    <vlan-id>vlan-id</vlan-id>
    <tdm-payload-size>tdm-payload-size</tdm-payload-size>
    <tdm-bitrate>tdm-bitrate</tdm-bitrate>
    <connection-bandwidth>...</connection-bandwidth>
    <cac-bandwidth-failure/>
    <vpn-label>vpn-label</vpn-label>
    <route-label>route-label</route-label>
    <bgp-no-label-reason>bgp-no-label-reason</bgp-no-label-reason>
    <rtd-flow-dep>...</rtd-flow-dep>
    <as-path>as-path</as-path>
    <communities>...</communities>
    <helper-nhid>helper-nhid</helper-nhid>
    <helper-refcount>helper-refcount</helper-refcount>
    <bgp-metric-flags>bgp-metric-flags</bgp-metric-flags>
    <local-preference>local-preference</local-preference>
    <med>med</med>
```

```
        <peer-id>peer-id</peer-id>
        <cluster-id>cluster-id</cluster-id>
        <originator>originator</originator>
        <attrset>...</attrset>
        <bgp-group-name>bgp-group-name</bgp-group-name>
        <deleted/>
        <route-flap-damping>...</route-flap-damping>
        <aggregate>...</aggregate>
        <gateway>gateway</gateway>
        <indirect-nh-count>indirect-nh-count</indirect-nh-count>
        <composite-nh-count>composite-nh-count</composite-nh-count>
        <nh-type>nh-type</nh-type>
        <nh-index>nh-index</nh-index>
        <nh-reference-count>nh-reference-count</nh-reference-count>
        <nh-kernel-id>nh-kernel-id</nh-kernel-id>
        <ext-int-intf-index>ext-int-intf-index</ext-int-intf-index>
        <nh>...</nh>
        <protocol-nh>...</protocol-nh>
        <rtrib-primary>rtrib-primary</rtrib-primary>
        <rtrib-secondary>rtrib-secondary</rtrib-secondary>
        <backup-pe-group-name>backup-pe-group-name</backup-pe-group-name>
        <designated-forwarder>designated-forwarder</designated-forwarder>
      </rt-entry>
    </rt>
```

Description No documentation is available yet.

Contents <active-tag>—Visual indication of active state of this route entry.

<age>—No documentation is available yet.

<aggregate>—No documentation is available yet.

<announce-bits>—No documentation is available yet.

<announce-tasks>—No documentation is available yet.

<as-path>—AS path of this route.

<attrset>—No documentation is available yet.

<backup-pe-group-name>—Name of the backup PE group.

<bgp-group-name>—No documentation is available yet.

<bgp-metric-flags>—BGP metrics flags.

<bgp-no-label-reason>—BGP label allocation failure.

<bgp-rt-flag>—BGP route flag.

<cac-bandwidth-failure>—Call admission control failure due to insufficient bandwidth.

<cell-bundle-size>—Cell bundle size.

<cluster-id>—No documentation is available yet.

<color>—No documentation is available yet.

<color2>—No documentation is available yet.

<communities>—No documentation is available yet.

<composite-nh-count>—Number of composite next hops.

<connection-bandwidth>—Bandwidth of a layer 2 connection.

<current-active>—This route entry is currently active.

<deleted>—No documentation is available yet.

<designated-forwarder>—Indicates if we are the designated forwarder for this route.

<ext-int-intf-index>—Interface index of equal-external-internal multipath.

<gateway>—Sourcing gateway.

<helper-nhid>—Helper nexthop index.

<helper-refcount>—Reference count of those needing helper route.

<inactive-reason>—No documentation is available yet.

<indirect-nh-count>—Number of indirect next hops.

<l2vpn-status-vector>—No documentation is available yet.

<label-base>—Label base for l2vpn.

<label-range>—Label range for l2vpn.

<last-active>—This route entry was the last active route entry.

<learned-from>—Peer address from which this route was learned.

<local-as>—Local AS number.

<local-preference>—No documentation is available yet.

<med>—Multiple exit discriminator.

<med-plus-igp>—No documentation is available yet.

<metric>—No documentation is available yet.

<metric2>—No documentation is available yet.

<mtu>—MTU along an interface.

<nh>—Next-hop gateway information.

<nh-index>—Next-hop index.

<nh-kernel-id>—Table Id for this next hop.

<nh-reference-count>—Number of references to this next hop.

<nh-type>—Special next hop: Reject, Blackhole, Receive, Multicast, Local, or Unused.

<originator>—No documentation is available yet.

<peer-as>—Peer AS number.

<peer-id>—Router identifier of the peer.

<pmsi>—P-multicast service interface.

<preference>—Preference value configured with the preference statement. The default preference value is 170.

<preference2>—No documentation is available yet.

<protocol-name>—No documentation is available yet.

<protocol-nh>—Protocol next hop.

<route-distinguisher>—No documentation is available yet.

<route-flap-damping>—No documentation is available yet.

<route-label>—Route label.

<rt-entry-state>—State of this route entry.

<rt-isis-downbit>—No documentation is available yet.

<rt-isis-level>—No documentation is available yet.

<rt-ospf-area>—No documentation is available yet.

<rt-tag>—No documentation is available yet.

<rt-tag2>—No documentation is available yet.

<rtd-flow-dep>—No documentation is available yet.

<rtrib-primary>—Primary routing table.

<rtrib-secondary>—Secondary routing table.

<task-name>—Name of this task.

<tdm-bitrate>—No documentation is available yet.

<tdm-payload-size>—No documentation is available yet.

<vc-label>—VC label.

<vlan-id>—No documentation is available yet.

<vpn-label>—VPN label.

<rt-martians>

Usage

```
<route-information>
  <rt-martians>
    <rt-martian-table-name>rt-martian-table-name</rt-martian-table-name>
    <route-filter>...</route-filter>
  </rt-martians>
</route-information>
```

Description No documentation is available yet.

Contents <route-filter>—Entries in martian table.

<rt-martian-table-name>—Name of the martian table, for example, inet.0.

<rt-ribgroup>

Usage

```
<route-information>
  <rt-ribgroup>
    <rt-ribgroup-name>rt-ribgroup-name</rt-ribgroup-name>
    <rt-ribgroup-address>rt-ribgroup-address</rt-ribgroup-address>
    <rt-ribgroup-flags>rt-ribgroup-flags</rt-ribgroup-flags>
    <rt-ribgroup-address-family>rt-ribgroup-address-family
                </rt-ribgroup-address-family>
    <rt-ribgroup-refcount>rt-ribgroup-refcount</rt-ribgroup-refcount>
    <rt-ribgroup-export-name>rt-ribgroup-export-name</rt-ribgroup-export-name>
    <rt-ribgroup-import-name>rt-ribgroup-import-name</rt-ribgroup-import-name>
    <rt-ribgroup-import-policy-name>rt-ribgroup-import-policy-name
                </rt-ribgroup-import-policy-name>
    <rt-ribgroup-import-secondary-name>rt-ribgroup-import-secondary-name
                </rt-ribgroup-import-secondary-name>
    <rt-ribgroup-union-head-name>rt-ribgroup-union-head-name
                </rt-ribgroup-union-head-name>
    <rt-ribgroup-union-child-name>rt-ribgroup-union-child-name
                </rt-ribgroup-union-child-name>
  </rt-ribgroup>
</route-information>
```

Description No documentation is available yet.

Contents

<rt-ribgroup-address>—Rib-group address.

<rt-ribgroup-address-family>—Rib-group address family.

<rt-ribgroup-export-name>—Export RIB name.

<rt-ribgroup-flags>—Rib-group flags.

<rt-ribgroup-import-name>—Import RIB name.

<rt-ribgroup-import-policy-name>—Import policy name.

<rt-ribgroup-import-secondary-name>—Import secondary RIB name.

<rt-ribgroup-name>—Rib-group name.

<rt-ribgroup-refcount>—Rib-group refcount.

<rt-ribgroup-union-child-name>—Rib-group union child name.

<rt-ribgroup-union-head-name>—Rib-group union head name.

<rt-test-policy>

Usage

```
<route-information>
  <rt-test-policy>
    <rt-policy-name>rt-policy-name</rt-policy-name>
    <rt-route-accepted>rt-route-accepted</rt-route-accepted>
    <rt-route-rejected>rt-route-rejected</rt-route-rejected>
  </rt-test-policy>
</route-information>
```

Description No documentation is available yet.

Contents <rt-policy-name>—No documentation is available yet.

<rt-route-accepted>—No documentation is available yet.

<rt-route-rejected>—No documentation is available yet.

<rt-test-policy-prefix>

Usage

```
<route-information>
  <rt-test-policy-prefix>
    <rt-policy-name>rt-policy-name</rt-policy-name>
    <rt-destination>rt-destination</rt-destination>
    <rt-prefix-length>rt-prefix-length</rt-prefix-length>
    <rt-test-policy-term>...</rt-test-policy-term>
  </rt-test-policy-prefix>
</route-information>
```

Description No documentation is available yet.

Contents <rt-destination>—No documentation is available yet.

<rt-policy-name>—No documentation is available yet.

<rt-prefix-length>—No documentation is available yet.

<rt-test-policy-term>—No documentation is available yet.

<rt-test-policy-term>

Usage

```
<rt-test-policy-prefix>
  <rt-test-policy-term>
    <rt-policy-term-name>rt-policy-term-name</rt-policy-term-name>
    <rt-policy-term-result>rt-policy-term-result</rt-policy-term-result>
    <rt-policy-term-action>rt-policy-term-action</rt-policy-term-action>
  </rt-test-policy-term>
</rt-test-policy-prefix>
```

Description No documentation is available yet.

Contents <rt-policy-term-action>—No documentation is available yet.

<rt-policy-term-name>—No documentation is available yet.

<rt-policy-term-result>—No documentation is available yet.

<rtd-flow-dep>

Usage

```
<rt-entry>
  <rtd-flow-dep>
    <flow-origin>flow-origin</flow-origin>
    <flow-dep-state>flow-dep-state</flow-dep-state>
    <flow-ucast-rt>...</flow-ucast-rt>
  </rtd-flow-dep>
</rt-entry>
```

Description No documentation is available yet.

Contents <flow-dep-state>—Flow dependency state.

<flow-origin>—Originator of the flow information.

<flow-ucast-rt>—Unicast route used for resolution.

<rte-instance>

Usage

```
<rtexport-table-information>
  <rte-instance>
    <instance-name>instance-name</instance-name>
    <rte-instance-type>rte-instance-type</rte-instance-type>
    <instance-flags>instance-flags</instance-flags>
    <instance-options>instance-options</instance-options>
    <import-policy>import-policy</import-policy>
    <export-policy>export-policy</export-policy>
  </rte-instance>
</rtexport-table-information>
```

Description No documentation is available yet.

Contents <export-policy>—No documentation is available yet.

<import-policy>—No documentation is available yet.

<instance-flags>—No documentation is available yet.

<instance-name>—No documentation is available yet.

<instance-options>—No documentation is available yet.

<rte-instance-type>—No documentation is available yet.

<rte-table>

Usage

```
<rtexport-table-information>
  <rte-table>
    <table-name>table-name</table-name>
    <table-export-on>table-export-on</table-export-on>
    <import-list>import-list</import-list>
    <table-flags>table-flags</table-flags>
    <table-usage>table-usage</table-usage>
  </rte-table>
</rtexport-table-information>
```

Description No documentation is available yet.

Contents <import-list>—No documentation is available yet.

<table-export-on>—No documentation is available yet.

<table-flags>—No documentation is available yet.

<table-name>—Unicast routing table.

<table-usage>—Number of exported routes.

<rte-target>

Usage

```
<rtexport-table-information>
  <rte-target>
    <target-string>target-string</target-string>
    <family>family</family>
    <subaf>subaf</subaf>
    <import-count>import-count</import-count>
    <export-count>export-count</export-count>
    <import-list>import-list</import-list>
    <export-list>export-list</export-list>
  </rte-target>
</rtexport-table-information>
```

Description No documentation is available yet.

Contents <export-count>—No documentation is available yet.

<export-list>—No documentation is available yet.

<family>—No documentation is available yet.

<import-count>—No documentation is available yet.

<import-list>—No documentation is available yet.

<subaf>—No documentation is available yet.

<target-string>—Route target.

<rtexport-table-information>

Usage

```
<rpc-reply>
  <rtexport-table-information>
    <rte-table>...</rte-table>
    <rte-target>...</rte-target>
    <rte-instance>...</rte-instance>
  </rtexport-table-information>
</rpc-reply>
```

Description Operational information policy-based instance export.

Contents <rte-instance>—No documentation is available yet.

<rte-table>—No documentation is available yet.

<rte-target>—No documentation is available yet.

<rtflow-dep-information>

Usage
```
<rpc-reply>
  <rtflow-dep-information>
    <rtflow-dep-table>...</rtflow-dep-table>
  </rtflow-dep-information>
</rpc-reply>
```

Description Operational information on flow route validation.

Contents <rtflow-dep-table>—No documentation is available yet.

<rtflow-dep-table>

Usage
```
<rtflow-dep-information>
  <rtflow-dep-table>
    <table-name>table-name</table-name>
    <fdep-node>...</fdep-node>
  </rtflow-dep-table>
</rtflow-dep-information>
```

Description No documentation is available yet.

Contents <fdep-node>—No documentation is available yet.

<table-name>—Unicast routing table.

<sap-listen>

Usage
```
<sap-listen-information>
  <sap-listen>
    <sap-listen-group>sap-listen-group</sap-listen-group>
    <sap-listen-port>sap-listen-port</sap-listen-port>
  </sap-listen>
</sap-listen-information>
```

Description No documentation is available yet.

Contents <sap-listen-group>—Listening group address.

<sap-listen-port>—Listening port.

<sap-listen-information>

Usage
```
<rpc-reply>
  <sap-listen-information>
    <sap-listen>...</sap-listen>
  </sap-listen-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <sap-listen>—No documentation is available yet.

<session-connection-data>

Usage
```
<multicast-session>
  <session-connection-data>
    <session-address>session-address</session-address>
    <session-ttl>session-ttl</session-ttl>
    <session-layers>session-layers</session-layers>
  </session-connection-data>
</multicast-session>
```

Description No documentation is available yet.

Contents <session-address>—No documentation is available yet.

<session-layers>—No documentation is available yet.

<session-ttl>—No documentation is available yet.

<session-origin>

Usage
```
<multicast-session>
  <session-origin>
    <session-originator-username>session-originator-username
                </session-originator-username>
    <session-originator-address>session-originator-address
                </session-originator-address>
  </session-origin>
</multicast-session>
```

Description No documentation is available yet.

Contents <session-originator-address>—No documentation is available yet.

<session-originator-username>—No documentation is available yet.

<source-family>

Usage
```
<pim-source-information>
  <source-family>
    <pim-instance>pim-instance</pim-instance>
    <address-family>address-family</address-family>
    <pim-source>...</pim-source>
  </source-family>
</pim-source-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<pim-instance>—Name of the PIM instance.

<pim-source>—No documentation is available yet.

<sparse-downstream-interface>

Usage

```
<join-group>
  <sparse-downstream-interface>
    <pim-interface-name>pim-interface-name</pim-interface-name>
    <register-rp>register-rp</register-rp>
    <register-interface-name>register-interface-name</register-interface-name>
    <pim-interface-state>pim-interface-state</pim-interface-state>
    <pim-pseudo-downstream-interface-name>pim-pseudo-downstream-interface-name
                </pim-pseudo-downstream-interface-name>
    <downstream-neighbor>...</downstream-neighbor>
    <downstream-assert-neighbor>...</downstream-assert-neighbor>
  </sparse-downstream-interface>
</join-group>
```

Description No documentation is available yet.

Contents <downstream-assert-neighbor>—Information about the neighbor that won the assert.

<downstream-neighbor>—No documentation is available yet.

<pim-interface-name>—Name of PIM interface.

<pim-interface-state>—State of PIM interface.

<pim-pseudo-downstream-interface-name>—Downstream pseudo interface representing aggregated IGMP interfaces.

<register-interface-name>—No documentation is available yet.

<register-rp>—No documentation is available yet.

<statistics-family>

Usage

```
<pim-statistics-information>
  <statistics-family>
    <address-family>address-family</address-family>
    <pim-statistics-interface>...</pim-statistics-interface>
  </statistics-family>
</pim-statistics-information>
```

Description No documentation is available yet.

Contents <address-family>—No documentation is available yet.

<pim-statistics-interface>—No documentation is available yet.

<switching-capability-descriptor>

Usage

```
<ted-link>
  <switching-capability-descriptor>
    <encoding-type>encoding-type</encoding-type>
    <switching-type>switching-type</switching-type>
    <maximum-lsp-bw0>maximum-lsp-bw0</maximum-lsp-bw0>
    <maximum-lsp-bw1>maximum-lsp-bw1</maximum-lsp-bw1>
    <maximum-lsp-bw2>maximum-lsp-bw2</maximum-lsp-bw2>
    <maximum-lsp-bw3>maximum-lsp-bw3</maximum-lsp-bw3>
    <maximum-lsp-bw4>maximum-lsp-bw4</maximum-lsp-bw4>
    <maximum-lsp-bw5>maximum-lsp-bw5</maximum-lsp-bw5>
    <maximum-lsp-bw6>maximum-lsp-bw6</maximum-lsp-bw6>
    <maximum-lsp-bw7>maximum-lsp-bw7</maximum-lsp-bw7>
    <minimum-lsp-bw>minimum-lsp-bw</minimum-lsp-bw>
    <mtu>mtu</mtu>
    <tdm-indication>tdm-indication</tdm-indication>
  </switching-capability-descriptor>
</ted-link>
```

Description Switching capability of an interface.

Contents <encoding-type>—LSP encoding type.

<maximum-lsp-bw0>—No documentation is available yet.

<maximum-lsp-bw1>—No documentation is available yet.

<maximum-lsp-bw2>—No documentation is available yet.

<maximum-lsp-bw3>—No documentation is available yet.

<maximum-lsp-bw4>—No documentation is available yet.

<maximum-lsp-bw5>—No documentation is available yet.

<maximum-lsp-bw6>—No documentation is available yet.

<maximum-lsp-bw7>—Maximum bandwidth an LSP could reserve.

<minimum-lsp-bw>—Minimum bandwidth an LSP could reserve.

<mtu>—MTU along an interface.

<switching-type>—LSP switching capability.

<tdm-indication>—Whether the interface supports Standard or Arbitrary SDH.

<task>

Usage

```
<task-information | task-timer-information>
  <task>
    <task-name>task-name</task-name>
    <task-no-information/>
    <task-timer>...</task-timer>
  </task>
</task-information | task-timer-information>
```

Description No documentation is available yet.

Contents <task-name>—Name of this task.

<task-no-information>—No information is available for this task.

<task-timer>—No documentation is available yet.

<task-block>

Usage

```
<task-block-list>
  <task-block>
    <tb-name>tb-name</tb-name>
    <tb-size>tb-size</tb-size>
    <tb-alloc-size>tb-alloc-size</tb-alloc-size>
    <tb-terse-transient/>
    <tb-terse-fullpage/>
    <tb-terse-debug/>
    <tb-alloc-blocks>tb-alloc-blocks</tb-alloc-blocks>
    <tb-alloc-bytes>tb-alloc-bytes</tb-alloc-bytes>
    <tb-max-alloc-blocks>tb-max-alloc-blocks</tb-max-alloc-blocks>
    <tb-max-alloc-bytes>tb-max-alloc-bytes</tb-max-alloc-bytes>
  </task-block>
</task-block-list>
```

Description No documentation is available yet.

Contents <tb-alloc-blocks>—Number of allocated structures.

<tb-alloc-bytes>—Number of allocated bytes.

<tb-alloc-size>—Allocated size for this block.

<tb-max-alloc-blocks>—Maximum number of structures ever allocated.

<tb-max-alloc-bytes>—Maximum number of bytes ever allocated.

<tb-name>—Name for this block.

<tb-size>—Actual size of this block.

<tb-terse-debug>—No documentation is available yet.

<tb-terse-fullpage>—No documentation is available yet.

<tb-terse-transient>—No documentation is available yet.

<task-block-list>

Usage

```
<task-memory-allocator-report>
  <task-block-list>
    <task-block>...</task-block>
  </task-block-list>
</task-memory-allocator-report>
```

Description No documentation is available yet.

Contents <task-block>—No documentation is available yet.

<task-information>

Usage
```
<rpc-reply>
  <task-information>
    <task>...</task>
  </task-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <task>—No documentation is available yet.

<task-lite-page>

Usage
```
<task-lite-page-list>
  <task-lite-page>
    <tlp-name>tlp-name</tlp-name>
    <tlp-alloc-pages>tlp-alloc-pages</tlp-alloc-pages>
    <tlp-alloc-bytes>tlp-alloc-bytes</tlp-alloc-bytes>
    <tlp-max-alloc-pages>tlp-max-alloc-pages</tlp-max-alloc-pages>
    <tlp-max-alloc-bytes>tlp-max-alloc-bytes</tlp-max-alloc-bytes>
  </task-lite-page>
</task-lite-page-list>
```

Description No documentation is available yet.

Contents <tlp-alloc-bytes>—Number of bytes allocated.

<tlp-alloc-pages>—Number of pages allocated.

<tlp-max-alloc-bytes>—Maximum bytes ever allocated.

<tlp-max-alloc-pages>—Maximum pages ever allocated.

<tlp-name>—Name of this pool.

<task-lite-page-list>

Usage
```
<task-memory-allocator-report>
  <task-lite-page-list>
    <task-lite-page>...</task-lite-page>
  </task-lite-page-list>
</task-memory-allocator-report>
```

Description No documentation is available yet.

Contents <task-lite-page>—No documentation is available yet.

<task-malloc>

Usage

```
<task-malloc-list>
  <task-malloc>
    <tm-name>tm-name</tm-name>
    <tm-allocs>tm-allocs</tm-allocs>
    <tm-alloc-bytes>tm-alloc-bytes</tm-alloc-bytes>
    <tm-max-allocs>tm-max-allocs</tm-max-allocs>
    <tm-max-alloc-bytes>tm-max-alloc-bytes</tm-max-alloc-bytes>
    <tm-function-calls>tm-function-calls</tm-function-calls>
  </task-malloc>
</task-malloc-list>
```

Description No documentation is available yet.

Contents <tm-alloc-bytes>—Number of bytes allocated.

<tm-allocs>—Number of allocations out.

<tm-function-calls>—Number of function calls.

<tm-max-alloc-bytes>—Maximum bytes allocated.

<tm-max-allocs>—Maximum allocations ever out.

<tm-name>—No documentation is available yet.

<task-malloc-list>

Usage

```
<task-memory-malloc-usage-report>
  <task-malloc-list>
    <task-malloc>...</task-malloc>
  </task-malloc-list>
</task-memory-malloc-usage-report>
```

Description No documentation is available yet.

Contents <task-malloc>—No documentation is available yet.

<task-memory-allocator-report>

Usage

```
<task-memory-information>
  <task-memory-allocator-report>
    <task-block-list>...</task-block-list>
    <task-lite-page-list>...</task-lite-page-list>
    <task-memory-total-bytes>task-memory-total-bytes</task-memory-total-bytes>
    <task-memory-total-max-bytes>task-memory-total-max-bytes
                    </task-memory-total-max-bytes>
  </task-memory-allocator-report>
</task-memory-information>
```

Description No documentation is available yet.

Contents <task-block-list>—No documentation is available yet.

<task-lite-page-list>—No documentation is available yet.

<task-memory-total-bytes>—No documentation is available yet.

<task-memory-total-max-bytes>—No documentation is available yet.

<task-memory-information>

Usage

```
<rpc-reply>
  <task-memory-information>
    <task-memory-in-use-size>task-memory-in-use-size</task-memory-in-use-size>
    <task-memory-in-use-avail>task-memory-in-use-avail</task-memory-in-use-avail>
    <task-memory-max-size>task-memory-max-size</task-memory-max-size>
    <task-memory-max-avail>task-memory-max-avail</task-memory-max-avail>
    <task-memory-max-when>task-memory-max-when</task-memory-max-when>
    <task-memory-free-size>task-memory-free-size</task-memory-free-size>
    <task-memory-overall-report>...</task-memory-overall-report>
    <task-memory-allocator-report>...</task-memory-allocator-report>
    <task-memory-malloc-usage-report>...</task-memory-malloc-usage-report>
    <task-memory-dynamic-allocs>task-memory-dynamic-allocs
            </task-memory-dynamic-allocs>
    <task-memory-max-dynamic-allocs>task-memory-max-dynamic-allocs
            </task-memory-max-dynamic-allocs>
    <task-memory-bss-bytes>task-memory-bss-bytes</task-memory-bss-bytes>
    <task-memory-max-bss-bytes>task-memory-max-bss-bytes
            </task-memory-max-bss-bytes>
    <task-memory-page-data-bytes>task-memory-page-data-bytes
            </task-memory-page-data-bytes>
    <task-memory-max-page-data-bytes>task-memory-max-page-data-bytes
            </task-memory-max-page-data-bytes>
    <task-memory-dir-bytes>task-memory-dir-bytes</task-memory-dir-bytes>
    <task-memory-max-dir-bytes>task-memory-max-dir-bytes
            </task-memory-max-dir-bytes>
    <task-memory-total-bytes-in-use>task-memory-total-bytes-in-use
            </task-memory-total-bytes-in-use>
    <task-memory-total-bytes-percent>task-memory-total-bytes-percent
            </task-memory-total-bytes-percent>
  </task-memory-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<task-memory-allocator-report>—No documentation is available yet.

<task-memory-bss-bytes>—No documentation is available yet.

<task-memory-dir-bytes>—No documentation is available yet.

<task-memory-dynamic-allocs>—No documentation is available yet.

<task-memory-free-size>—No documentation is available yet.

<task-memory-in-use-avail>—No documentation is available yet.

<task-memory-in-use-size>—No documentation is available yet.

<task-memory-malloc-usage-report>—No documentation is available yet.

<task-memory-max-avail>—No documentation is available yet.

<task-memory-max-bss-bytes>—No documentation is available yet.

<task-memory-max-dir-bytes>—No documentation is available yet.

<task-memory-max-dynamic-allocs>—No documentation is available yet.

<task-memory-max-page-data-bytes>—No documentation is available yet.

<task-memory-max-size>—No documentation is available yet.

<task-memory-max-when>—No documentation is available yet.

<task-memory-overall-report>—No documentation is available yet.

<task-memory-page-data-bytes>—No documentation is available yet.

<task-memory-total-bytes-in-use>—No documentation is available yet.

<task-memory-total-bytes-percent>—No documentation is available yet.

<task-memory-malloc-usage-report>

Usage

```
<task-memory-information>
  <task-memory-malloc-usage-report>
    <task-malloc-list>...</task-malloc-list>
    <task-memory-total-bytes>task-memory-total-bytes</task-memory-total-bytes>
    <task-memory-total-max-bytes>task-memory-total-max-bytes
                </task-memory-total-max-bytes>
  </task-memory-malloc-usage-report>
</task-memory-information>
```

Description No documentation is available yet.

Contents <task-malloc-list>—No documentation is available yet.

<task-memory-total-bytes>—No documentation is available yet.

<task-memory-total-max-bytes>—No documentation is available yet.

<task-memory-overall-report>

Usage

```
<task-memory-information>
  <task-memory-overall-report>
    <task-size-block-list>...</task-size-block-list>
    <task-memory-stats-list>...</task-memory-stats-list>
    <task-memory-total-bytes>task-memory-total-bytes</task-memory-total-bytes>
    <task-memory-total-max-bytes>task-memory-total-max-bytes
                </task-memory-total-max-bytes>
    <task-memory-total-free-bytes>task-memory-total-free-bytes
                </task-memory-total-free-bytes>
  </task-memory-overall-report>
</task-memory-information>
```

Description No documentation is available yet.

Contents <task-memory-stats-list>—No documentation is available yet.

<task-memory-total-bytes>—No documentation is available yet.

<task-memory-total-free-bytes>—No documentation is available yet.

<task-memory-total-max-bytes>—No documentation is available yet.

<task-size-block-list>—No documentation is available yet.

<task-memory-stats>

Usage

```
<task-memory-stats-list>
  <task-memory-stats>
    <tms-name>tms-name</tms-name>
    <tms-allocs>tms-allocs</tms-allocs>
    <tms-mallocs>tms-mallocs</tms-mallocs>
    <tms-alloc-bytes>tms-alloc-bytes</tms-alloc-bytes>
    <tms-max-allocs>tms-max-allocs</tms-max-allocs>
    <tms-max-bytes>tms-max-bytes</tms-max-bytes>
    <tms-free-bytes>tms-free-bytes</tms-free-bytes>
  </task-memory-stats>
</task-memory-stats-list>
```

Description No documentation is available yet.

Contents <tms-alloc-bytes>—Number of bytes now allocated.

<tms-allocs>—Number of items allocated.

<tms-free-bytes>—No documentation is available yet.

<tms-mallocs>—Number of items allocated using malloc.

<tms-max-allocs>—Maximum items ever allocated.

<tms-max-bytes>—Maximum bytes ever allocated.

<tms-name>—No documentation is available yet.

<task-memory-stats-list>

Usage

```
<task-memory-overall-report>
  <task-memory-stats-list>
    <task-memory-stats>...</task-memory-stats>
  </task-memory-stats-list>
</task-memory-overall-report>
```

Description No documentation is available yet.

Contents <task-memory-stats>—No documentation is available yet.

<task-replication-state>

Usage

```
<rpc-reply>
  <task-replication-state>
    <task-gres-state>task-gres-state</task-gres-state>
    <task-re-mode>task-re-mode</task-re-mode>
    <task-protocol-replication-state>task-protocol-replication-state
                </task-protocol-replication-state>
    <task-protocol-replication-name>task-protocol-replication-name
                </task-protocol-replication-name>
  </task-replication-state>
</rpc-reply>
```

Description Current state of task replication.

Contents <task-gres-state>—Current state of graceful Routing Engine Switchover.

<task-protocol-replication-name>—No documentation is available yet.

<task-protocol-replication-state>—No documentation is available yet.

<task-re-mode>—Current mastership state of Routing Engine.

<task-size-block>

Usage

```
<task-size-block-list>
  <task-size-block>
    <tsb-size>tsb-size</tsb-size>
    <tsb-terse-transient/>
    <tsb-terse-fullpage/>
    <tsb-allocs>tsb-allocs</tsb-allocs>
    <tsb-mallocs>tsb-mallocs</tsb-mallocs>
    <tsb-alloc-bytes>tsb-alloc-bytes</tsb-alloc-bytes>
    <tsb-max-allocs>tsb-max-allocs</tsb-max-allocs>
    <tsb-max-bytes>tsb-max-bytes</tsb-max-bytes>
    <tsb-free-bytes>tsb-free-bytes</tsb-free-bytes>
  </task-size-block>
</task-size-block-list>
```

Description No documentation is available yet.

Contents <tsb-alloc-bytes>—Number of items allocated in bytes.

<tsb-allocs>—Number of items allocated now not using malloc.

<tsb-free-bytes>—Number of free bytes.

<tsb-mallocs>—Number of items allocated using malloc.

<tsb-max-allocs>—Maximum items ever allocated.

<tsb-max-bytes>—Maximum items ever allocated in bytes.

<tsb-size>—Size of this block.

<tsb-terse-fullpage>—No documentation is available yet.

<tsb-terse-transient>—No documentation is available yet.

<task-size-block-list>

Usage

```
<task-memory-overall-report>
  <task-size-block-list>
    <task-size-block>...</task-size-block>
  </task-size-block-list>
</task-memory-overall-report>
```

Description No documentation is available yet.

Contents <task-size-block>—No documentation is available yet.

<task-timer>

Usage

```
<task>
  <task-timer>
    <timer-name>timer-name</timer-name>
    <timer-late/>
    <timer-expires>timer-expires</timer-expires>
    <timer-jitter>timer-jitter</timer-jitter>
    <timer-interval>timer-interval</timer-interval>
    <timer-flags>timer-flags</timer-flags>
  </task-timer>
</task>
```

Description No documentation is available yet.

Contents <timer-expires>—Time after which timer expires.

<timer-flags>—No documentation is available yet.

<timer-interval>—Time to sleep between timer jobs.

<timer-jitter>—Jitter, in percent.

<timer-late>—Timer is expired but is still running.

<timer-name>—Timer name.

<task-timer-information>

Usage

```
<rpc-reply>
  <task-timer-information>
    <task>...</task>
  </task-timer-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <task>—No documentation is available yet.

<te-class-map>

Usage

```
<mpls-diffserv-te-information>
  <te-class-map>
    <te-class>te-class</te-class>
    <traffic-class>traffic-class</traffic-class>
    <te-prio>te-prio</te-prio>
  </te-class-map>
</mpls-diffserv-te-information>
```

Description No documentation is available yet.

Contents <te-class>—TE class.

<te-prio>—Priority associated with a particular traffic class.

<traffic-class>—Traffic class.

<te-subtlv>

Usage

```
<ospf-opaque-area-lsa>
  <te-subtlv>
    <tlv-type-name>tlv-type-name</tlv-type-name>
    <tlv-type-value>tlv-type-value</tlv-type-value>
    <tlv-length>tlv-length</tlv-length>
    <bytes-left>bytes-left</bytes-left>
    <formatted-tlv-data>formatted-tlv-data</formatted-tlv-data>
  </te-subtlv>
</ospf-opaque-area-lsa>
```

Description No documentation is available yet.

Contents <bytes-left>—No documentation is available yet.

<formatted-tlv-data>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<tlv-type-name>—No documentation is available yet.

<tlv-type-value>—No documentation is available yet.

<ted-database>

Usage

```
<ted-database-information>
  <ted-database>
    <ted-database-id>ted-database-id</ted-database-id>
    <ted-database-id-overload>ted-database-id-overload</ted-database-id-overload>
    <ted-database-type>ted-database-type</ted-database-type>
    <ted-database-age>ted-database-age</ted-database-age>
    <ted-database-link-in>ted-database-link-in</ted-database-link-in>
    <ted-database-link-out>ted-database-link-out</ted-database-link-out>
    <ted-database-protocol>ted-database-protocol</ted-database-protocol>
    <ted-link>...</ted-link>
    <ted-database-lcl-addr>...</ted-database-lcl-addr>
  </ted-database>
</ted-database-information>
```

Description MPLS traffic engineering database.

Contents <ted-database-age>—No documentation is available yet.

<ted-database-id>—No documentation is available yet.

<ted-database-id-overload>—No documentation is available yet.

<ted-database-lcl-addr>—No documentation is available yet.

<ted-database-link-in>—No documentation is available yet.

<ted-database-link-out>—No documentation is available yet.

<ted-database-protocol>—No documentation is available yet.

<ted-database-type>—No documentation is available yet.

<ted-link>—No documentation is available yet.

<ted-database-information>

Usage

```
<rpc-reply>
  <ted-database-information>
    <ted-database-summary>...</ted-database-summary>
    <ted-database>...</ted-database>
  </ted-database-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ted-database>—MPLS traffic engineering database.

<ted-database-summary>—No documentation is available yet.

<ted-database-lcl-addr>

Usage
```
<ted-database>
  <ted-database-lcl-addr>
    <ted-lcl-addr>ted-lcl-addr</ted-lcl-addr>
  </ted-database-lcl-addr>
</ted-database>
```

Description No documentation is available yet.

Contents <ted-lcl-addr>—No documentation is available yet.

<ted-database-summary>

Usage
```
<ted-database-information>
  <ted-database-summary>
    <ted-database-iso-count>ted-database-iso-count</ted-database-iso-count>
    <ted-database-inet-count>ted-database-inet-count</ted-database-inet-count>
  </ted-database-summary>
</ted-database-information>
```

Description No documentation is available yet.

Contents <ted-database-inet-count>—No documentation is available yet.

<ted-database-iso-count>—No documentation is available yet.

<ted-link>

Usage

```
<ted-database | ted-link-information>
  <ted-link>
    <ted-link-from>ted-link-from</ted-link-from>
    <ted-link-to>ted-link-to</ted-link-to>
    <ted-link-local-address>ted-link-local-address</ted-link-local-address>
    <ted-link-remote-address>ted-link-remote-address</ted-link-remote-address>
    <ted-link-local-ifindex>ted-link-local-ifindex</ted-link-local-ifindex>
    <ted-link-remote-ifindex>ted-link-remote-ifindex</ted-link-remote-ifindex>
    <admin-groups>...</admin-groups>
    <ted-link-metric>ted-link-metric</ted-link-metric>
    <ted-link-link-out>ted-link-link-out</ted-link-link-out>
    <ted-link-static-bandwidth>ted-link-static-bandwidth
                </ted-link-static-bandwidth>
    <ted-link-reservable-bandwidth>ted-link-reservable-bandwidth
                </ted-link-reservable-bandwidth>
    <ted-link-forwarding-adjacency/>
    <ted-link-local-bw0>ted-link-local-bw0</ted-link-local-bw0>
    <ted-link-local-bw1>ted-link-local-bw1</ted-link-local-bw1>
    <ted-link-local-bw2>ted-link-local-bw2</ted-link-local-bw2>
    <ted-link-local-bw3>ted-link-local-bw3</ted-link-local-bw3>
    <ted-link-local-bw4>ted-link-local-bw4</ted-link-local-bw4>
    <ted-link-local-bw5>ted-link-local-bw5</ted-link-local-bw5>
    <ted-link-local-bw6>ted-link-local-bw6</ted-link-local-bw6>
    <ted-link-local-bw7>ted-link-local-bw7</ted-link-local-bw7>
    <ted-link-avail-bw0>ted-link-avail-bw0</ted-link-avail-bw0>
    <ted-link-avail-bw1>ted-link-avail-bw1</ted-link-avail-bw1>
    <ted-link-avail-bw2>ted-link-avail-bw2</ted-link-avail-bw2>
    <ted-link-avail-bw3>ted-link-avail-bw3</ted-link-avail-bw3>
    <ted-link-avail-bw4>ted-link-avail-bw4</ted-link-avail-bw4>
    <ted-link-avail-bw5>ted-link-avail-bw5</ted-link-avail-bw5>
    <ted-link-avail-bw6>ted-link-avail-bw6</ted-link-avail-bw6>
    <ted-link-avail-bw7>ted-link-avail-bw7</ted-link-avail-bw7>
    <ted-link-model>ted-link-model</ted-link-model>
    <ted-link-ct-bw0>ted-link-ct-bw0</ted-link-ct-bw0>
    <ted-link-ct-bw1>ted-link-ct-bw1</ted-link-ct-bw1>
    <ted-link-ct-bw2>ted-link-ct-bw2</ted-link-ct-bw2>
    <ted-link-ct-bw3>ted-link-ct-bw3</ted-link-ct-bw3>
    <ted-link-ct-bw4>ted-link-ct-bw4</ted-link-ct-bw4>
    <ted-link-ct-bw5>ted-link-ct-bw5</ted-link-ct-bw5>
    <ted-link-ct-bw6>ted-link-ct-bw6</ted-link-ct-bw6>
    <ted-link-ct-bw7>ted-link-ct-bw7</ted-link-ct-bw7>
    <switching-capability-descriptor>...</switching-capability-descriptor>
    <ted-link-unreserved-bw-tlv-meaning>ted-link-unreserved-bw-tlv-meaning
                </ted-link-unreserved-bw-tlv-meaning>
    <ted-link-dste-tlv-meaning>ted-link-dste-tlv-meaning
                </ted-link-dste-tlv-meaning>
  </ted-link>
</ted-database | ted-link-information>
```

Description No documentation is available yet.

Contents <admin-groups>—No documentation is available yet.

<switching-capability-descriptor>—Switching capability of an interface.

<ted-link-avail-bw0>—No documentation is available yet.

<ted-link-avail-bw1>—No documentation is available yet.

<ted-link-avail-bw2>—No documentation is available yet.

<ted-link-avail-bw3>—No documentation is available yet.

<ted-link-avail-bw4>—No documentation is available yet.

<ted-link-avail-bw5>—No documentation is available yet.

<ted-link-avail-bw6>—No documentation is available yet.

<ted-link-avail-bw7>—No documentation is available yet.

<ted-link-ct-bw0>—No documentation is available yet.

<ted-link-ct-bw1>—No documentation is available yet.

<ted-link-ct-bw2>—No documentation is available yet.

<ted-link-ct-bw3>—No documentation is available yet.

<ted-link-ct-bw4>—No documentation is available yet.

<ted-link-ct-bw5>—No documentation is available yet.

<ted-link-ct-bw6>—No documentation is available yet.

<ted-link-ct-bw7>—No documentation is available yet.

<ted-link-dste-tlv-meaning>—No documentation is available yet.

<ted-link-forwarding-adjacency>—Indicates that the link is a forwarding adjacency.

<ted-link-from>—No documentation is available yet.

<ted-link-link-out>—No documentation is available yet.

<ted-link-local-address>—No documentation is available yet.

<ted-link-local-bw0>—No documentation is available yet.

<ted-link-local-bw1>—No documentation is available yet.

<ted-link-local-bw2>—No documentation is available yet.

<ted-link-local-bw3>—No documentation is available yet.

<ted-link-local-bw4>—No documentation is available yet.

<ted-link-local-bw5>—No documentation is available yet.

<ted-link-local-bw6>—No documentation is available yet.

<ted-link-local-bw7>—No documentation is available yet.

<ted-link-local-ifindex>—Local interface index.

<ted-link-metric>—No documentation is available yet.

<ted-link-model>—No documentation is available yet.

<ted-link-remote-address>—No documentation is available yet.

<ted-link-remote-ifindex>—Remote interface index.

<ted-link-reservable-bandwidth>—No documentation is available yet.

<ted-link-static-bandwidth>—No documentation is available yet.

<ted-link-to>—No documentation is available yet.

<ted-link-unreserved-bw-tlv-meaning>—No documentation is available yet.

<ted-link-information>

Usage

```
<rpc-reply>
  <ted-link-information>
    <ted-link>...</ted-link>
  </ted-link-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ted-link>—No documentation is available yet.

<ted-protocol>

Usage

```
<ted-protocol-information>
  <ted-protocol>
    <ted-protocol-name>ted-protocol-name</ted-protocol-name>
    <ted-protocol-credibility>ted-protocol-credibility</ted-protocol-credibility>
    <ted-protocol-self-node>ted-protocol-self-node</ted-protocol-self-node>
  </ted-protocol>
</ted-protocol-information>
```

Description No documentation is available yet.

Contents <ted-protocol-credibility>—No documentation is available yet.

<ted-protocol-name>—Protocol that filled in the TED entry.

<ted-protocol-self-node>—No documentation is available yet.

<ted-protocol-information>

Usage

```
<rpc-reply>
  <ted-protocol-information>
    <ted-protocol>...</ted-protocol>
  </ted-protocol-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <ted-protocol>—No documentation is available yet.

<tlv-block>

Usage

```
<ospf-opaque-area-lsa>
  <tlv-block>
    <tlv-type-name>tlv-type-name</tlv-type-name>
    <tlv-type-value>tlv-type-value</tlv-type-value>
    <tlv-length>tlv-length</tlv-length>
    <bytes-left>bytes-left</bytes-left>
    <formatted-tlv-data>formatted-tlv-data</formatted-tlv-data>
  </tlv-block>
</ospf-opaque-area-lsa>
```

Description No documentation is available yet.

Contents <bytes-left>—No documentation is available yet.

<formatted-tlv-data>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<tlv-type-name>—No documentation is available yet.

<tlv-type-value>—No documentation is available yet.

<tlv-stragglers>

Usage

```
<isis-tlv>
  <tlv-stragglers>
    <bytes-left>bytes-left</bytes-left>
  </tlv-stragglers>
</isis-tlv>
```

Description No documentation is available yet.

Contents <bytes-left>—No documentation is available yet.

<totals-information>

Usage
```
<isis-statistics>
  <totals-information>
    <packets-received>packets-received</packets-received>
    <packets-sent>packets-sent</packets-sent>
  </totals-information>
</isis-statistics>
```

Description No documentation is available yet.

Contents <packets-received>—No documentation is available yet.

<packets-sent>—No documentation is available yet.

<tracing-information>

Usage
```
<nlri-traffic-stats | bgp-peer | bgp-group | ospf-overview>
  <tracing-information>
    <flags>flags</flags>
    <filename>filename</filename>
    <filesize>filesize</filesize>
    <filelimit>filelimit</filelimit>
  </tracing-information>
</nlri-traffic-stats | bgp-peer | bgp-group | ospf-overview>
```

Description No documentation is available yet.

Contents <filelimit>—Maximum number of retained trace files.

<filename>—Name of the trace file.

<filesize>—Maximum size of the trace file.

<flags>—Enabled trace flags.

<transmission-status>

Usage

```
<isis-database-entry>
  <transmission-status>
    <transmit-count>transmit-count</transmit-count>
    <message>message</message>
    <interface-name>interface-name</interface-name>
    <transmit-time>transmit-time</transmit-time>
  </transmission-status>
</isis-database-entry>
```

Description No documentation is available yet.

Contents <interface-name>—No documentation is available yet.

<message>—No documentation is available yet.

<transmit-count>—No documentation is available yet.

<transmit-time>—Time at which this message is queued for transmission.

<tunnel-nexthop>

Usage

```
<dynamic-tunnel>
  <tunnel-nexthop>
    <tunnel-nh-type>tunnel-nh-type</tunnel-nh-type>
    <tunnel-nh-src>tunnel-nh-src</tunnel-nh-src>
    <via>via</via>
    <tunnel-nh-state>tunnel-nh-state</tunnel-nh-state>
    <tunnel-nh-reason>tunnel-nh-reason</tunnel-nh-reason>
  </tunnel-nexthop>
</dynamic-tunnel>
```

Description No documentation is available yet.

Contents <tunnel-nh-reason>—Reason why the tunnel next hop is not up.

<tunnel-nh-src>—Source address for this tunnel next hop.

<tunnel-nh-state>—State of the tunnel next hop.

<tunnel-nh-type>—Type of next hop.

<via>—Reachable via a local interface.

<unconfigured-peers>

Usage
```
<bgp-group>
  <unconfigured-peers>
    <route-filter>...</route-filter>
  </unconfigured-peers>
</bgp-group>
```

Description Set of address prefixes from which this group allows peering.

Contents <route-filter>—Entries in martian table.

<unknown-tlv>

Usage
```
<isis-tlv>
  <unknown-tlv>
    <isis-tlv-type>isis-tlv-type</isis-tlv-type>
    <tlv-length>tlv-length</tlv-length>
  </unknown-tlv>
</isis-tlv>
```

Description No documentation is available yet.

Contents <isis-tlv-type>—No documentation is available yet.

<tlv-length>—No documentation is available yet.

<upstream-group>

Usage
```
<pim-source>
  <upstream-group>
    <multicast-group-address>multicast-group-address</multicast-group-address>
  </upstream-group>
</pim-source>
```

Description No documentation is available yet.

Contents <multicast-group-address>—Group address.

<upstream-state-flags>

Usage

```
<join-group>
  <upstream-state-flags>
    <none/>
    <local-source/>
    <local-rp/>
    <join-to-rp/>
    <join-to-source/>
    <prune-to-rp/>
    <prune-to-source/>
  </upstream-state-flags>
</join-group>
```

Description No documentation is available yet.

Contents <join-to-rp>—No documentation is available yet.

<join-to-source>—No documentation is available yet.

<local-rp>—No documentation is available yet.

<local-source>—No documentation is available yet.

<none>—No documentation is available yet.

<prune-to-rp>—No documentation is available yet.

<prune-to-source>—No documentation is available yet.

<vpls-auto-site-repository>

Usage

```
<vpls-auto-site-repository-information>
  <vpls-auto-site-repository>
    <route-distinguisher>route-distinguisher</route-distinguisher>
    <instance-id>instance-id</instance-id>
    <local-site-id>local-site-id</local-site-id>
    <auto-site-count>auto-site-count</auto-site-count>
    <auto-site-repository-state>auto-site-repository-state
                </auto-site-repository-state>
  </vpls-auto-site-repository>
</vpls-auto-site-repository-information>
```

Description Information about one or more automatic site replication entries.

Contents <auto-site-count>—Count of label blocks advertised per site.

<auto-site-repository-state>—State of automtic site replication entry.

<instance-id>—Routing instance identifier.

<local-site-id>—No documentation is available yet.

<route-distinguisher>—No documentation is available yet.

<vpls-auto-site-repository-information>

Usage
```
<rpc-reply>
  <vpls-auto-site-repository-information>
    <vpls-auto-site-repository>...</vpls-auto-site-repository>
  </vpls-auto-site-repository-information>
</rpc-reply>
```

Description Information about automatic site replication repository.

Contents <vpls-auto-site-repository>—Information about one or more automatic site replication entries.

<vpls-bgp-label-repository-information>

Usage
```
<rpc-reply>
  <vpls-bgp-label-repository-information>
    <vpls-bgp-route-distinguisher-information>...
                    </vpls-bgp-route-distinguisher-information>
  </vpls-bgp-label-repository-information>
</rpc-reply>
```

Description Information about VPLS label replication using BGP signaling.

Contents <vpls-bgp-route-distinguisher-information>—Information about one or more VPLS route distinguisher replication entries.

<vpls-bgp-route-distinguisher-information>

Usage
```
<vpls-bgp-label-repository-information>
  <vpls-bgp-route-distinguisher-information>
    <route-distinguisher>route-distinguisher</route-distinguisher>
    <instance-id>instance-id</instance-id>
    <l2vpn-nlri-advertisement>...</l2vpn-nlri-advertisement>
  </vpls-bgp-route-distinguisher-information>
</vpls-bgp-label-repository-information>
```

Description Information about one or more VPLS route distinguisher replication entries.

Contents <instance-id>—Routing instance identifier.

<l2vpn-nlri-advertisement>—Information about a Layer 2 VPN network layer reachability information replication entry.

<route-distinguisher>—No documentation is available yet.

<vpls-connection-information>

Usage
```
<rpc-reply>
  <vpls-connection-information>
    <instance>...</instance>
  </vpls-connection-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <instance>—No documentation is available yet.

<vpls-dyn-prof-session-information>

Usage
```
<rpc-reply>
  <vpls-dyn-prof-session-information>
    <vpls-dyn-session-entry>...</vpls-dyn-session-entry>
  </vpls-dyn-prof-session-information>
</rpc-reply>
```

Description Information about the dynamic profiles for VE Ifls.

Contents <vpls-dyn-session-entry>—Information for sessions created using dynamic profiles for VE ifls.

<vpls-dyn-session-entry>

Usage
```
<vpls-dyn-prof-session-information>
  <vpls-dyn-session-entry>
    <vpls-dyn-session-id>vpls-dyn-session-id</vpls-dyn-session-id>
    <vpls-dyn-profile-name>vpls-dyn-profile-name</vpls-dyn-profile-name>
    <vpls-dyn-interface-name>vpls-dyn-interface-name</vpls-dyn-interface-name>
    <vpls-dyn-instance-name>vpls-dyn-instance-name</vpls-dyn-instance-name>
  </vpls-dyn-session-entry>
</vpls-dyn-prof-session-information>
```

Description Information for sessions created using dynamic profiles for VE ifls.

Contents <vpls-dyn-instance-name>—Routing instance associated with the dynamic-profile interface.

<vpls-dyn-interface-name>—Interface associated with the dynamic prorfile.

<vpls-dyn-profile-name>—Dynamic profile name.

<vpls-dyn-session-id>—Session id of the session DB.

<vpls-dynamic-interface-repository>

Usage

```
<vpls-dynamic-interface-repository-information>
  <vpls-dynamic-interface-repository>
    <instance-id>instance-id</instance-id>
    <local-site-id>local-site-id</local-site-id>
    <remote-site-id>remote-site-id</remote-site-id>
    <interface-name>interface-name</interface-name>
    <local-interface-index>local-interface-index</local-interface-index>
    <vpls-label>vpls-label</vpls-label>
    <interface-repository-state>interface-repository-state
                </interface-repository-state>
    <mesh-group-id>mesh-group-id</mesh-group-id>
  </vpls-dynamic-interface-repository>
</vpls-dynamic-interface-repository-information>
```

Description Information about one or more dynamic interface replication entries.

Contents <instance-id>—Routing instance identifier.

<interface-name>—No documentation is available yet.

<interface-repository-state>—State of dynamic interface replication entry.

<local-interface-index>—SNMP ifIndex of local interface.

<local-site-id>—No documentation is available yet.

<mesh-group-id>—Mesh-group Identifier.

<remote-site-id>—No documentation is available yet.

<vpls-label>—Label assigned to a dynamic interface.

<vpls-dynamic-interface-repository-information>

Usage

```
<rpc-reply>
  <vpls-dynamic-interface-repository-information>
    <vpls-dynamic-interface-repository>...</vpls-dynamic-interface-repository>
    <vpls-ldp-dynamic-interface-repository-entity>...
                </vpls-ldp-dynamic-interface-repository-entity>
  </vpls-dynamic-interface-repository-information>
</rpc-reply>
```

Description Information about the VPLS dynamic interface replication repository.

Contents <vpls-dynamic-interface-repository>—Information about one or more dynamic interface replication entries.

<vpls-ldp-dynamic-interface-repository-entity>—Information about the VPLS dynamic interface using LDP signaling.

<vpls-ldp-dynamic-interface-repository>

Usage

```
<vpls-ldp-dynamic-interface-repository-entity>
  <vpls-ldp-dynamic-interface-repository>
    <vpls-id>vpls-id</vpls-id>
    <neighbor-id>neighbor-id</neighbor-id>
    <interface-name>interface-name</interface-name>
    <vpls-label>vpls-label</vpls-label>
    <ifl-repository-state>ifl-repository-state</ifl-repository-state>
    <mesh-group-id>mesh-group-id</mesh-group-id>
  </vpls-ldp-dynamic-interface-repository>
</vpls-ldp-dynamic-interface-repository-entity>
```

Description Information about one or more dynamic interface replication entries.

Contents <ifl-repository-state>—No documentation is available yet.

<interface-name>—No documentation is available yet.

<mesh-group-id>—Mesh-group Identifier.

<neighbor-id>—No documentation is available yet.

<vpls-id>—VPLS instance identifier.

<vpls-label>—Label assigned to a dynamic interface.

<vpls-ldp-dynamic-interface-repository-entity>

Usage

```
<vpls-dynamic-interface-repository-information>
  <vpls-ldp-dynamic-interface-repository-entity>
    <instance>...</instance>
    <vpls-ldp-dynamic-interface-repository>...
                    </vpls-ldp-dynamic-interface-repository>
  </vpls-ldp-dynamic-interface-repository-entity>
</vpls-dynamic-interface-repository-information>
```

Description Information about the VPLS dynamic interface using LDP signaling.

Contents <instance>—No documentation is available yet.

<vpls-ldp-dynamic-interface-repository>—Information about one or more dynamic interface replication entries.

<vpls-ldp-label-repository>

Usage
```
<vpls-ldp-label-repository-entity>
  <vpls-ldp-label-repository>
    <neighbor-id>neighbor-id</neighbor-id>
    <vpls-id>vpls-id</vpls-id>
    <vpls-label>vpls-label</vpls-label>
    <label-repository-state>label-repository-state</label-repository-state>
  </vpls-ldp-label-repository>
</vpls-ldp-label-repository-entity>
```

Description Information about one or more VPLS label replication entries.

Contents <label-repository-state>—State of label replication entry.

<neighbor-id>—No documentation is available yet.

<vpls-id>—VPLS instance identifier.

<vpls-label>—Label assigned to a dynamic interface.

<vpls-ldp-label-repository-entity>

Usage
```
<vpls-ldp-label-repository-information>
  <vpls-ldp-label-repository-entity>
    <instance-name>instance-name</instance-name>
    <vpls-ldp-label-repository>...</vpls-ldp-label-repository>
  </vpls-ldp-label-repository-entity>
</vpls-ldp-label-repository-information>
```

Description Information about VPLS label replication using LDP signaling.

Contents <instance-name>—No documentation is available yet.

<vpls-ldp-label-repository>—Information about one or more VPLS label replication entries.

<vpls-ldp-label-repository-information>

Usage
```
<rpc-reply>
  <vpls-ldp-label-repository-information>
    <vpls-ldp-label-repository-entity>...</vpls-ldp-label-repository-entity>
  </vpls-ldp-label-repository-information>
</rpc-reply>
```

Description Information about VPLS label replication using LDP signaling.

Contents <vpls-ldp-label-repository-entity>—Information about VPLS label replication using LDP signaling.

<vpls-protocol-state>

Usage

```
<instance>
  <vpls-protocol-state>
    <vpls-signaling-protocol-identifier>vpls-signaling-protocol-identifier
                  </vpls-signaling-protocol-identifier>
    <num-local-interfaces>num-local-interfaces</num-local-interfaces>
    <num-local-interfaces-up>num-local-interfaces-up</num-local-interfaces-up>
    <irb-present>irb-present</irb-present>
    <mesh-group-count>mesh-group-count</mesh-group-count>
    <mesh-group-up-count>mesh-group-up-count</mesh-group-up-count>
    <mesh-group-interfaces>...</mesh-group-interfaces>
    <interface>...</interface>
    <mesh-group-connection>...</mesh-group-connection>
    <reference-site>...</reference-site>
  </vpls-protocol-state>
</instance>
```

Description No documentation is available yet.

Contents

<interface>—No documentation is available yet.

<irb-present>—No documentation is available yet.

<mesh-group-connection>—Information about all vc-connections of a specific mesh-group.

<mesh-group-count>—No documentation is available yet.

<mesh-group-interfaces>—Information about all interfaces associated with a mesh-group.

<mesh-group-up-count>—No documentation is available yet.

<num-local-interfaces>—No documentation is available yet.

<num-local-interfaces-up>—No documentation is available yet.

<reference-site>—No documentation is available yet.

<vpls-signaling-protocol-identifier>—No documentation is available yet.

<vpls-rsvp-te-ingress-p2mp-lsp>

Usage

```
<instance>
  <vpls-rsvp-te-ingress-p2mp-lsp>
    <vpls-ingress-p2mp-lsp-name>vpls-ingress-p2mp-lsp-name
                </vpls-ingress-p2mp-lsp-name>
    <vpls-rsvp-te-p2mp-flood-nexthop-id>vpls-rsvp-te-p2mp-flood-nexthop-id
                </vpls-rsvp-te-p2mp-flood-nexthop-id>
  </vpls-rsvp-te-ingress-p2mp-lsp>
</instance>
```

Description No documentation is available yet.

Contents <vpls-ingress-p2mp-lsp-name>—Name of ingress point-to-multipoint LSP.

<vpls-rsvp-te-p2mp-flood-nexthop-id>—Identifier for VPLS RSVP traffic-engineering ingress flood next hop.

<vpls-rsvp-te-p2mp-lsp-information>

Usage

```
<connection>
  <vpls-rsvp-te-p2mp-lsp-information>
    <vpls-ingress-p2mp-branch-lsp-name>vpls-ingress-p2mp-branch-lsp-name
                </vpls-ingress-p2mp-branch-lsp-name>
    <vpls-ingress-p2mp-branch-lsp-state>vpls-ingress-p2mp-branch-lsp-state
                </vpls-ingress-p2mp-branch-lsp-state>
    <vpls-egress-p2mp-branch-lsp-name>vpls-egress-p2mp-branch-lsp-name
                </vpls-egress-p2mp-branch-lsp-name>
    <vpls-egress-p2mp-branch-lsp-state>vpls-egress-p2mp-branch-lsp-state
                </vpls-egress-p2mp-branch-lsp-state>
  </vpls-rsvp-te-p2mp-lsp-information>
</connection>
```

Description Information about one or more VPLS RSVP-TE point-to-multipoint LSPs.

Contents <vpls-egress-p2mp-branch-lsp-name>—Name of egress point-to-multipoint branch LSP.

<vpls-egress-p2mp-branch-lsp-state>—State of egress point-to-multipoint branch LSP.

<vpls-ingress-p2mp-branch-lsp-name>—Name of ingress point-to-multipoint branch LSP.

<vpls-ingress-p2mp-branch-lsp-state>—State of ingress point-to-multipoint branch LSP.

<vpls-statistics-information>

Usage

```
<rpc-reply>
  <vpls-statistics-information>
    <instance>...</instance>
    <interface-statistics>...</interface-statistics>
  </vpls-statistics-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <instance>—No documentation is available yet.

<interface-statistics>—No documentation is available yet.

<vrrp-group>

Usage

```
<ipv6-ra-interface>
  <vrrp-group>
    <vrrp-group-id>vrrp-group-id</vrrp-group-id>
    <vrrp-advertisements-sent>vrrp-advertisements-sent</vrrp-advertisements-sent>
    <vrrp-advertisement-sent-time>vrrp-advertisement-sent-time
                </vrrp-advertisement-sent-time>
    <vrrp-solicits-received>vrrp-solicits-received</vrrp-solicits-received>
    <vrrp-solicit-receive-time>vrrp-solicit-receive-time
                </vrrp-solicit-receive-time>
    <vrrp-advertisements-received>vrrp-advertisements-received
                </vrrp-advertisements-received>
  </vrrp-group>
</ipv6-ra-interface>
```

Description No documentation is available yet.

Contents <vrrp-advertisement-sent-time>—How long since the last advertisement was sent.

<vrrp-advertisements-received>—Number of advertisements received.

<vrrp-advertisements-sent>—Number of advertisements sent.

<vrrp-group-id>—Group ID of the configured VRRP group.

<vrrp-solicit-receive-time>—How long since the last solicitation was sent.

<vrrp-solicits-received>—Number of router solicitations received.

Summary of RPM Response Tags

This section lists JUNOS XML tags that contain operational information about real-time performance monitoring (RPM). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-rpm. To review the DTD for the tags, see "DTD for RPM Response Tags" on page 2463.

<active-servers>

Usage

```
<rpc-reply>
  <active-servers>
    <configured-servers>...</configured-servers>
  </active-servers>
</rpc-reply>
```

Description No documentation is available yet.

Contents <configured-servers>—No documentation is available yet.

<configured-servers>

Usage

```
<active-servers>
  <configured-servers>
    <protocol>protocol</protocol>
    <port>port</port>
    <destination-interface>destination-interface</destination-interface>
  </configured-servers>
</active-servers>
```

Description No documentation is available yet.

Contents <destination-interface>—Name of output interface for probes.

<port>—Port.

<protocol>—Protocol.

<connection>

Usage

```
<twamp-server-information>
  <connection>
    <connection-id>connection-id</connection-id>
    <client-address>client-address</client-address>
    <client-port>client-port</client-port>
    <server-address>server-address</server-address>
    <server-port>server-port</server-port>
    <session-count>session-count</session-count>
    <authentication-mode>authentication-mode</authentication-mode>
  </connection>
</twamp-server-information>
```

Description Server connection.

Contents <authentication-mode>—Authentication mode.

<client-address>—Client address.

<client-port>—Client port.

<connection-id>—Connection ID.

<server-address>—Server address.

<server-port>—Server port.

<session-count>—Number of sessions.

<history-results>

Usage

```
<rpc-reply>
  <history-results>
    <history-test-results>...</history-test-results>
  </history-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <history-test-results>—No documentation is available yet.

<history-test-results>

Usage

```
<history-results>
  <history-test-results>
    <owner>owner</owner>
    <test-name>test-name</test-name>
    <target-address>target-address</target-address>
    <target-url>target-url</target-url>
    <source-address>source-address</source-address>
    <destination-interface>destination-interface</destination-interface>
    <probe-type>probe-type</probe-type>
    <probe-single-results>...</probe-single-results>
    <probe-test-current-results>...</probe-test-current-results>
    <loss-thresh-total>loss-thresh-total</loss-thresh-total>
    <loss-thresh-succ>loss-thresh-succ</loss-thresh-succ>
    <delay-thresh>delay-thresh</delay-thresh>
    <jitter-thresh>jitter-thresh</jitter-thresh>
    <stddev-thresh>stddev-thresh</stddev-thresh>
    <egress-thresh>egress-thresh</egress-thresh>
    <egress-jitter-thresh>egress-jitter-thresh</egress-jitter-thresh>
    <ingress-thresh>ingress-thresh</ingress-thresh>
    <ingress-jitter-thresh>ingress-jitter-thresh</ingress-jitter-thresh>
  </history-test-results>
</history-results>
```

Description No documentation is available yet.

Contents

<delay-thresh>—Maximum delay threshold.

<destination-interface>—Name of output interface for probes.

<egress-jitter-thresh>—Maximum egress jitter threshold.

<egress-thresh>—Maximum egress delay threshold.

<ingress-jitter-thresh>—Maximum ingress jitter threshold.

<ingress-thresh>—Maximum ingress delay threshold.

<jitter-thresh>—Maximum jitter threshold.

<loss-thresh-succ>—Maximum number of successive lost probes.

<loss-thresh-total>—Maximum number of all lost probes.

<owner>—Test owner name.

<probe-single-results>—No documentation is available yet.

<probe-test-current-results>—No documentation is available yet.

<probe-type>—Name of the probe.

<source-address>—Source address of test.

<stddev-thresh>—Maximum standard deviation threshold.

<target-address>—Target address of test.

<target-url>—Target URL of test.

<test-name>—Name of test.

<packet-statistics>

Usage

```
<session | server-statistics>
  <packet-statistics>
    <request-sessions-received>request-sessions-received
                </request-sessions-received>
    <accept-sessions-sent>accept-sessions-sent</accept-sessions-sent>
    <start-sessions-received>start-sessions-received</start-sessions-received>
    <stop-sessions-received>stop-sessions-received</stop-sessions-received>
    <test-packets-received>test-packets-received</test-packets-received>
    <test-packets-reflected>test-packets-reflected</test-packets-reflected>
    <last-sequence-number-received>last-sequence-number-received
                </last-sequence-number-received>
    <last-sequence-number-sent>last-sequence-number-sent
                </last-sequence-number-sent>
    <test-packets-dropped>test-packets-dropped</test-packets-dropped>
    <test-packets-dropped-details>...</test-packets-dropped-details>
  </packet-statistics>
</session | server-statistics>
```

Description Test session packet statistics.

Contents <accept-sessions-sent>—Accept sessions sent.

<last-sequence-number-received>—Last sequence number received.

<last-sequence-number-sent>—Last sequence number sent.

<request-sessions-received>—Request sessions received.

<start-sessions-received>—Start sessions received.

<stop-sessions-received>—Stop sessions received.

<test-packets-dropped>—Test packets dropped.

<test-packets-dropped-details>—Test packets dropped details.

<test-packets-received>—Test packets received.

<test-packets-reflected>—Test packets reflected.

<probe-last-test-info>

Usage
```
<probe-test-generic-results>
  <probe-last-test-info>
    <last-test-time>last-test-time</last-test-time>
  </probe-last-test-info>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <last-test-time>—Time at which last test was completed.

<probe-last-test-results>

Usage
```
<probe-test-results>
  <probe-last-test-results>
    <probe-test-generic-results>...</probe-test-generic-results>
  </probe-last-test-results>
</probe-test-results>
```

Description No documentation is available yet.

Contents <probe-test-generic-results>—No documentation is available yet.

<probe-results>

Usage
```
<rpc-reply>
  <probe-results>
    <probe-test-results>...</probe-test-results>
  </probe-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <probe-test-results>—No documentation is available yet.

<probe-single-results>

Usage

```
<probe-test-results | history-test-results>
  <probe-single-results>
    <owner>owner</owner>
    <test-name>test-name</test-name>
    <probe-time>probe-time</probe-time>
    <probe-status>probe-status</probe-status>
    <hardware-timestamp-status>hardware-timestamp-status
                </hardware-timestamp-status>
    <rtt>rtt</rtt>
    <ingress>ingress</ingress>
    <egress>egress</egress>
    <egress-jitter>egress-jitter</egress-jitter>
    <ingress-jitter>ingress-jitter</ingress-jitter>
    <round-trip-jitter>round-trip-jitter</round-trip-jitter>
    <egress-interarrival-jitter>egress-interarrival-jitter
                </egress-interarrival-jitter>
    <ingress-interarrival-jitter>ingress-interarrival-jitter
                </ingress-interarrival-jitter>
    <round-trip-interarrival-jitter>round-trip-interarrival-jitter
                </round-trip-interarrival-jitter>
  </probe-single-results>
</probe-test-results | history-test-results>
```

Description No documentation is available yet.

Contents

<egress>—Egress trip time of probes.

<egress-interarrival-jitter>—Egress interarrival jitter of probes.

<egress-jitter>—Egress jitter of probes.

<hardware-timestamp-status>—Use of hardware timestamps in probes.

<ingress>—Ingress trip time of probes.

<ingress-interarrival-jitter>—Ingress interarrival jitter of probes.

<ingress-jitter>—Ingress jitter of probes.

<owner>—Test owner name.

<probe-status>—Operation response status from probes.

<probe-time>—Time at which probe response was received or timed out.

<round-trip-interarrival-jitter>—Round trip interarrival jitter of probes.

<round-trip-jitter>—Round trip jitter of probes.

<rtt>—Round trip time of probes.

<test-name>—Name of test.

<probe-summary-results>

Usage

```
<probe-test-rtt | probe-test-egress | probe-test-ingress | probe-test-positive-egress-jitter |
probe-test-negative-egress-jitter | probe-test-positive-ingress-jitter |
probe-test-negative-ingress-jitter | probe-test-positive-round-trip-jitter |
probe-test-negative-round-trip-jitter>
  <probe-summary-results>
    <probe-results-type>probe-results-type</probe-results-type>
    <min-delay>min-delay</min-delay>
    <max-delay>max-delay</max-delay>
    <avg-delay>avg-delay</avg-delay>
    <jitter-delay>jitter-delay</jitter-delay>
    <stddev-delay>stddev-delay</stddev-delay>
    <sum-delay>sum-delay</sum-delay>
    <samples>samples</samples>
  </probe-summary-results>
</probe-test-rtt | probe-test-egress | probe-test-ingress | probe-test-positive-egress-jitter
| probe-test-negative-egress-jitter | probe-test-positive-ingress-jitter |
probe-test-negative-ingress-jitter | probe-test-positive-round-trip-jitter |
probe-test-negative-round-trip-jitter>
```

Description No documentation is available yet.

Contents <avg-delay>—Average delay time.

<jitter-delay>—Difference between maximum and minimum delay times.

<max-delay>—Maximum delay time.

<min-delay>—Minimum delay time.

<probe-results-type>—Results type.

<samples>—Number of samples.

<stddev-delay>—Standard deviation of delay time.

<sum-delay>—Sum of delay times.

<probe-test-current-results>

Usage

```
<probe-test-results | history-test-results>
  <probe-test-current-results>
    <probe-test-generic-results>...</probe-test-generic-results>
  </probe-test-current-results>
</probe-test-results | history-test-results>
```

Description No documentation is available yet.

Contents <probe-test-generic-results>—No documentation is available yet.

<probe-test-egress>

Usage

```
<probe-test-generic-results>
  <probe-test-egress>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-egress>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-generic-results>

Usage

```
<probe-test-current-results | probe-last-test-results | probe-test-moving-results |
probe-test-global-results>
  <probe-test-generic-results>
    <probes-sent>probes-sent</probes-sent>
    <probe-responses>probe-responses</probe-responses>
    <loss-percentage>loss-percentage</loss-percentage>
    <results-scope>results-scope</results-scope>
    <probe-last-test-info>...</probe-last-test-info>
    <probe-test-rtt>...</probe-test-rtt>
    <probe-test-egress>...</probe-test-egress>
    <probe-test-ingress>...</probe-test-ingress>
    <probe-test-positive-egress-jitter>...</probe-test-positive-egress-jitter>
    <probe-test-negative-egress-jitter>...</probe-test-negative-egress-jitter>
    <probe-test-positive-ingress-jitter>...</probe-test-positive-ingress-jitter>
    <probe-test-negative-ingress-jitter>...</probe-test-negative-ingress-jitter>
    <probe-test-positive-round-trip-jitter>...
                </probe-test-positive-round-trip-jitter>
    <probe-test-negative-round-trip-jitter>...
                </probe-test-negative-round-trip-jitter>
  </probe-test-generic-results>
</probe-test-current-results | probe-last-test-results | probe-test-moving-results |
probe-test-global-results>
```

Description No documentation is available yet.

Contents

<loss-percentage>—Percentage of probes lost (no response).

<probe-last-test-info>—No documentation is available yet.

<probe-responses>—Responses from probes.

<probe-test-egress>—No documentation is available yet.

<probe-test-ingress>—No documentation is available yet.

<probe-test-negative-egress-jitter>—No documentation is available yet.

<probe-test-negative-ingress-jitter>—No documentation is available yet.

<probe-test-negative-round-trip-jitter>—No documentation is available yet.

<probe-test-positive-egress-jitter>—No documentation is available yet.

<probe-test-positive-ingress-jitter>—No documentation is available yet.

<probe-test-positive-round-trip-jitter>—No documentation is available yet.

<probe-test-rtt>—No documentation is available yet.

<probes-sent>—Number of probes sent.

<results-scope>—Scope of results.

<probe-test-global-results>

Usage
```
<probe-test-results>
  <probe-test-global-results>
    <probe-test-generic-results>...</probe-test-generic-results>
  </probe-test-global-results>
</probe-test-results>
```

Description No documentation is available yet.

Contents <probe-test-generic-results>—No documentation is available yet.

<probe-test-ingress>

Usage
```
<probe-test-generic-results>
  <probe-test-ingress>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-ingress>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-moving-results>

Usage
```
<probe-test-results>
  <probe-test-moving-results>
    <probe-test-generic-results>...</probe-test-generic-results>
  </probe-test-moving-results>
</probe-test-results>
```

Description No documentation is available yet.

Contents <probe-test-generic-results>—No documentation is available yet.

<probe-test-negative-egress-jitter>

Usage
```
<probe-test-generic-results>
  <probe-test-negative-egress-jitter>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-negative-egress-jitter>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-negative-ingress-jitter>

Usage
```
<probe-test-generic-results>
  <probe-test-negative-ingress-jitter>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-negative-ingress-jitter>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-negative-round-trip-jitter>

Usage
```
<probe-test-generic-results>
  <probe-test-negative-round-trip-jitter>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-negative-round-trip-jitter>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-positive-egress-jitter>

Usage
```
<probe-test-generic-results>
  <probe-test-positive-egress-jitter>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-positive-egress-jitter>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-positive-ingress-jitter>

Usage
```
<probe-test-generic-results>
  <probe-test-positive-ingress-jitter>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-positive-ingress-jitter>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-positive-round-trip-jitter>

Usage

```
<probe-test-generic-results>
  <probe-test-positive-round-trip-jitter>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-positive-round-trip-jitter>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<probe-test-results>

Usage

```
<probe-results>
  <probe-test-results>
    <owner>owner</owner>
    <test-name>test-name</test-name>
    <target-address>target-address</target-address>
    <target-url>target-url</target-url>
    <source-address>source-address</source-address>
    <destination-interface>destination-interface</destination-interface>
    <probe-type>probe-type</probe-type>
    <test-size>test-size</test-size>
    <routing-instance-name>routing-instance-name</routing-instance-name>
    <loss-thresh-total>loss-thresh-total</loss-thresh-total>
    <loss-thresh-succ>loss-thresh-succ</loss-thresh-succ>
    <delay-thresh>delay-thresh</delay-thresh>
    <jitter-thresh>jitter-thresh</jitter-thresh>
    <stddev-thresh>stddev-thresh</stddev-thresh>
    <egress-thresh>egress-thresh</egress-thresh>
    <egress-jitter-thresh>egress-jitter-thresh</egress-jitter-thresh>
    <egress-stddev-thresh>egress-stddev-thresh</egress-stddev-thresh>
    <ingress-thresh>ingress-thresh</ingress-thresh>
    <ingress-jitter-thresh>ingress-jitter-thresh</ingress-jitter-thresh>
    <ingress-stddev-thresh>ingress-stddev-thresh</ingress-stddev-thresh>
    <probe-single-results>...</probe-single-results>
    <probe-test-current-results>...</probe-test-current-results>
    <probe-last-test-results>...</probe-last-test-results>
    <probe-test-moving-results>...</probe-test-moving-results>
    <probe-test-global-results>...</probe-test-global-results>
  </probe-test-results>
</probe-results>
```

Description No documentation is available yet.

Contents

<delay-thresh>—Maximum delay threshold.

<destination-interface>—Name of output interface for probes.

<egress-jitter-thresh>—Maximum egress jitter threshold.

<egress-stddev-thresh>—Maximum egress standard deviation threshold.

<egress-thresh>—Maximum egress delay threshold.

<ingress-jitter-thresh>—Maximum ingress jitter threshold.

<ingress-stddev-thresh>—Maximum ingress standard deviation threshold.

<ingress-thresh>—Maximum ingress delay threshold.

<jitter-thresh>—Maximum jitter threshold.

<loss-thresh-succ>—Maximum number of successive lost probes.

<loss-thresh-total>—Maximum number of all lost probes.

<owner>—Test owner name.

<probe-last-test-results>—No documentation is available yet.

<probe-single-results>—No documentation is available yet.

<probe-test-current-results>—No documentation is available yet.

<probe-test-global-results>—No documentation is available yet.

<probe-test-moving-results>—No documentation is available yet.

<probe-type>—Name of the probe.

<routing-instance-name>—Routing Instance Name.

<source-address>—Source address of test.

<stddev-thresh>—Maximum standard deviation threshold.

<target-address>—Target address of test.

<target-url>—Target URL of test.

<test-name>—Name of test.

<test-size>—Number of probes in test.

<probe-test-rtt>

Usage
```
<probe-test-generic-results>
  <probe-test-rtt>
    <probe-summary-results>...</probe-summary-results>
  </probe-test-rtt>
</probe-test-generic-results>
```

Description No documentation is available yet.

Contents <probe-summary-results>—No documentation is available yet.

<server>

Usage
```
<twamp-server-information>
  <server>
    <session>...</session>
  </server>
</twamp-server-information>
```

Description Server information.

Contents <session>—Server session.

<server-statistics>

Usage

```
<twamp-server-information>
  <server-statistics>
    <packet-statistics>...</packet-statistics>
  </server-statistics>
</twamp-server-information>
```

Description Server statistics.

Contents <packet-statistics>—Test session packet statistics.

<session>

Usage

```
<server>
  <session>
    <session-id>session-id</session-id>
    <connection-id>connection-id</connection-id>
    <sender-address>sender-address</sender-address>
    <sender-port>sender-port</sender-port>
    <reflector-address>reflector-address</reflector-address>
    <reflector-port>reflector-port</reflector-port>
    <session-state>session-state</session-state>
    <authentication-mode>authentication-mode</authentication-mode>
    <ip-version>ip-version</ip-version>
    <padding-length>padding-length</padding-length>
    <start-time>start-time</start-time>
    <timeout>timeout</timeout>
    <packet-statistics>...</packet-statistics>
  </session>
</server>
```

Description Server session.

Contents <authentication-mode>—Authentication mode.

<connection-id>—Connection ID.

<ip-version>—IP version.

<packet-statistics>—Test session packet statistics.

<padding-length>—Padding length.

<reflector-address>—Reflector address.

<reflector-port>—Reflector port.

<sender-address>—Sender address.

<sender-port>—Sender port.

<session-id>—Session ID.

<session-state>—Session state.

<start-time>—Starting time.

<timeout>—Timeout.

<test-packets-dropped-details>

Usage

```
<packet-statistics>
  <test-packets-dropped-details>
    <session-nonexist>session-nonexist</session-nonexist>
    <session-notactive>session-notactive</session-notactive>
    <packet-unsupported>packet-unsupported</packet-unsupported>
    <packet-malformed>packet-malformed</packet-malformed>
    <internal-error>internal-error</internal-error>
  </test-packets-dropped-details>
</packet-statistics>
```

Description Test packets dropped details.

Contents <internal-error>—Internal error.

<packet-malformed>—Packet malformed.

<packet-unsupported>—Packet unsupported.

<session-nonexist>—Test packets dropped because session does not exist.

<session-notactive>—Test packets dropped because session is not active.

<twamp-server-information>

Usage

```
<rpc-reply>
  <twamp-server-information>
    <connection>...</connection>
    <server>...</server>
    <server-statistics>...</server-statistics>
  </twamp-server-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <connection>—Server connection.

<server>—Server information.

<server-statistics>—Server statistics.

Summary of SDX Response Tags

This section lists JUNOS XML tags that contain operational information about the Service Deployment System (SDX) for the JUNOS Software. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-sdx. To review the DTD for the tags, see "DTD for SDX Response Tags" on page 2469.

<connection-status>

Usage

```
<sdx-information>
  <connection-status>
    <state>state</state>
    <address>address</address>
    <port>port</port>
    <date-time>date-time</date-time>
  </connection-status>
</sdx-information>
```

Description Status of the connection to SDX.

Contents <address>—No documentation is available yet.

<date-time>—No documentation is available yet.

<port>—No documentation is available yet.

<state>—No documentation is available yet.

<keepalive-information>

Usage

```
<sdx-information>
  <keepalive-information>
    <interval>interval</interval>
    <keepalive-count>keepalive-count</keepalive-count>
    <elapsed-time>elapsed-time</elapsed-time>
  </keepalive-information>
</sdx-information>
```

Description Keepalive settings and statistics.

Contents <elapsed-time>—No documentation is available yet.

<interval>—Interval.

<keepalive-count>—Number of keepalives sent since process start.

<notification-information>

Usage
```
<sdx-information>
  <notification-information>
    <notification-count>notification-count</notification-count>
    <elapsed-time>elapsed-time</elapsed-time>
  </notification-information>
</sdx-information>
```

Description Notification statistics.

Contents <elapsed-time>—No documentation is available yet.

<notification-count>—Number of notifications sent since process started.

<peer-information>

Usage
```
<sdx-information>
  <peer-information>
    <elapsed-time>elapsed-time</elapsed-time>
  </peer-information>
</sdx-information>
```

Description Peer statistics.

Contents <elapsed-time>—No documentation is available yet.

<sdx-information>

Usage
```
<rpc-reply>
  <sdx-information>
    <unconfigured/>
    <connection-status>...</connection-status>
    <keepalive-information>...</keepalive-information>
    <notification-information>...</notification-information>
    <peer-information>...</peer-information>
  </sdx-information>
</rpc-reply>
```

Description Information about service deployment application.

Contents <connection-status>—Status of the connection to SDX.

<keepalive-information>—Keepalive settings and statistics.

<notification-information>—Notification statistics.

<peer-information>—Peer statistics.

<unconfigured>—SDX daemon is not configured.

Summary of Services Flow Collector Response Tags

This section lists JUNOS XML tags that contain operational information about services flow collector records. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-services-flow-collector. To review the DTD for the tags, see "DTD for Services Flow Collector Response Tags" on page 2479.

<export-channel>

Usage

```
<statistics-information>
  <export-channel>
    <export-channel-index>export-channel-index</export-channel-index>
    <current-server>current-server</current-server>
    <primary-server-state>primary-server-state</primary-server-state>
    <secondary-server-state>secondary-server-state</secondary-server-state>
  </export-channel>
</statistics-information>
```

Description Export channel on interface.

Contents <current-server>—Currently used server.

<export-channel-index>—Export channel index.

<primary-server-state>—Primary server state.

<secondary-server-state>—Secondary server state.

<file>

Usage

```
<file-information>
  <file>
    <file-name>file-name</file-name>
    <flow-records>flow-records</flow-records>
    <flow-records-per-second>flow-records-per-second</flow-records-per-second>
    <peak-flow-records-per-second>peak-flow-records-per-second
                </peak-flow-records-per-second>
    <uncompressed-bytes>uncompressed-bytes</uncompressed-bytes>
    <uncompressed-bytes-per-second>uncompressed-bytes-per-second
                </uncompressed-bytes-per-second>
    <peak-uncompressed-bytes-per-second>peak-uncompressed-bytes-per-second
                </peak-uncompressed-bytes-per-second>
    <compressed-bytes>compressed-bytes</compressed-bytes>
    <compressed-bytes-per-second>compressed-bytes-per-second
                </compressed-bytes-per-second>
    <peak-compressed-bytes-per-second>peak-compressed-bytes-per-second
                </peak-compressed-bytes-per-second>
    <compressed-block-count>compressed-block-count</compressed-block-count>
    <block-count>block-count</block-count>
    <state>state</state>
    <transfer-attempts>transfer-attempts</transfer-attempts>
  </file>
</file-information>
```

Description File statistics.

Contents <block-count>—Number of blocks in file.

<compressed-block-count>—Number of compressed blocks.

<compressed-bytes>—Compressed bytes.

<compressed-bytes-per-second>—Compressed bytes per second.

<file-name>—Filename.

<flow-records>—Flow records in file.

<flow-records-per-second>—Flow records per second.

<peak-compressed-bytes-per-second>—Peak compressed bytes per second.

<peak-flow-records-per-second>—Peak flow records per second.

<peak-uncompressed-bytes-per-second>—Peak uncompressed bytes per second.

<state>—Current state of the file.

<transfer-attempts>—Number of FTP transfer attempts.

<uncompressed-bytes>—Uncompressed bytes.

<uncompressed-bytes-per-second>—Uncompressed bytes per second.

<file-information>

Usage
```
<services-flow-collector-information>
  <file-information>
    <file>...</file>
  </file-information>
</services-flow-collector-information>
```

Description Service flow collector information about files.

Contents <file>—File statistics.

<input>

Usage
```
<input-information>
  <input>
    <input-interface>input-interface</input-interface>
    <packets>packets</packets>
    <bytes>bytes</bytes>
  </input>
</input-information>
```

Description Input interface statistics.

Contents <bytes>—Bytes.

<input-interface>—Input interface.

<packets>—Packets.

<input-information>

Usage
```
<services-flow-collector-information>
  <input-information>
    <input>...</input>
  </input-information>
</services-flow-collector-information>
```

Description Service flow collector information for each input.

Contents <input>—Input interface statistics.

<services-flow-collector-information>

Usage

```
<rpc-reply>
  <services-flow-collector-information>
    <interface-name>interface-name</interface-name>
    <pic-status>pic-status</pic-status>
    <statistics-information>...</statistics-information>
    <file-information>...</file-information>
    <input-information>...</input-information>
    <flow-collector-destination-response>flow-collector-destination-response
            </flow-collector-destination-response>
    <test-file-transfer-response>test-file-transfer-response
            </test-file-transfer-response>
    <clear-flow-collector-statistics-response>clear-flow-collector-statistics-response
            </clear-flow-collector-statistics-response>
  </services-flow-collector-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <clear-flow-collector-statistics-response>—No documentation is available yet.

<file-information>—Service flow collector information about files.

<flow-collector-destination-response>—Selected destination.

<input-information>—Service flow collector information for each input.

<interface-name>—Physical interface name.

<pic-status>—Current interface state.

<statistics-information>—Service flow collector application information.

<test-file-transfer-response>—No documentation is available yet.

<statistics-information>

Usage <services-flow-collector-information>
<statistics-information>
<memory-used>*memory-used*</memory-used>
<memory-free>*memory-free*</memory-free>
<packets>*packets*</packets>
<packets-per-second>*packets-per-second*</packets-per-second>
<peak-packets-per-second>*peak-packets-per-second*</peak-packets-per-second>
<bytes>*bytes*</bytes>
<bytes-per-second>*bytes-per-second*</bytes-per-second>
<peak-bytes-per-second>*peak-bytes-per-second*</peak-bytes-per-second>
<flow-record-processed>*flow-record-processed*</flow-record-processed>
<flow-record-processed-per-second>*flow-record-processed-per-second*
</flow-record-processed-per-second>
<peak-flow-record-processed-per-second>*peak-flow-record-processed-per-second*
</peak-flow-record-processed-per-second>
<blocks-allocated>*blocks-allocated*</blocks-allocated>
<blocks-allocated-per-second>*blocks-allocated-per-second*
</blocks-allocated-per-second>
<peak-blocks-allocated-per-second>*peak-blocks-allocated-per-second*
</peak-blocks-allocated-per-second>
<blocks-freed>*blocks-freed*</blocks-freed>
<blocks-freed-per-second>*blocks-freed-per-second*</blocks-freed-per-second>
<peak-blocks-freed-per-second>*peak-blocks-freed-per-second*
</peak-blocks-freed-per-second>
<blocks-unavailable>*blocks-unavailable*</blocks-unavailable>
<blocks-unavailable-per-second>*blocks-unavailable-per-second*
</blocks-unavailable-per-second>
<peak-blocks-unavailable-per-second>*peak-blocks-unavailable-per-second*
</peak-blocks-unavailable-per-second>
<files-created>*files-created*</files-created>
<files-created-per-second>*files-created-per-second*</files-created-per-second>
<peak-files-created-per-second>*peak-files-created-per-second*
</peak-files-created-per-second>
<files-exported>*files-exported*</files-exported>
<files-exported-per-second>*files-exported-per-second*
</files-exported-per-second>
<peak-files-exported-per-second>*peak-files-exported-per-second*
</peak-files-exported-per-second>
<files-destroyed>*files-destroyed*</files-destroyed>
<files-destroyed-per-second>*files-destroyed-per-second*
</files-destroyed-per-second>
<peak-files-destroyed-per-second>*peak-files-destroyed-per-second*
</peak-files-destroyed-per-second>
<uncompressed-bytes>*uncompressed-bytes*</uncompressed-bytes>
<uncompressed-bytes-per-second>*uncompressed-bytes-per-second*
</uncompressed-bytes-per-second>
<peak-uncompressed-bytes-per-second>*peak-uncompressed-bytes-per-second*
</peak-uncompressed-bytes-per-second>
<compressed-bytes>*compressed-bytes*</compressed-bytes>
<compressed-bytes-per-second>*compressed-bytes-per-second*
</compressed-bytes-per-second>
<peak-compressed-bytes-per-second>*peak-compressed-bytes-per-second*

```
                    </peak-compressed-bytes-per-second>
    <packet-no-memory-drops>packet-no-memory-drops</packet-no-memory-drops>
    <packet-not-ip-drops>packet-not-ip-drops</packet-not-ip-drops>
    <packet-not-ipv4-drops>packet-not-ipv4-drops</packet-not-ipv4-drops>
    <packet-too-small-drops>packet-too-small-drops</packet-too-small-drops>
    <packet-ip-fragment-drops>packet-ip-fragment-drops</packet-ip-fragment-drops>
    <packet-icmp-drops>packet-icmp-drops</packet-icmp-drops>
    <packet-tcp-drops>packet-tcp-drops</packet-tcp-drops>
    <packet-unknown-drops>packet-unknown-drops</packet-unknown-drops>
    <packet-not-jflow-drops>packet-not-jflow-drops</packet-not-jflow-drops>
    <ftp-bytes>ftp-bytes</ftp-bytes>
    <ftp-bytes-per-second>ftp-bytes-per-second</ftp-bytes-per-second>
    <peak-ftp-bytes-per-second>peak-ftp-bytes-per-second
                    </peak-ftp-bytes-per-second>
    <ftp-files>ftp-files</ftp-files>
    <ftp-files-per-second>ftp-files-per-second</ftp-files-per-second>
    <peak-ftp-files-per-second>peak-ftp-files-per-second
                    </peak-ftp-files-per-second>
    <ftp-failures>ftp-failures</ftp-failures>
    <export-channel>...</export-channel>
  </statistics-information>
</services-flow-collector-information>
```

Description Service flow collector application information.

Contents <blocks-allocated>—Blocks allocated.

<blocks-allocated-per-second>—Blocks allocated per second.

<blocks-freed>—Blocks freed.

<blocks-freed-per-second>—Blocks freed per second.

<blocks-unavailable>—Blocks unavailable.

<blocks-unavailable-per-second>—Blocks unavailable per second.

<bytes>—Bytes.

<bytes-per-second>—Bytes per second.

<compressed-bytes>—Compressed bytes.

<compressed-bytes-per-second>—Compressed bytes per second.

<export-channel>—Export channel on interface.

<files-created>—Files created.

<files-created-per-second>—Files created per second.

<files-destroyed>—Files destroyed.

<files-destroyed-per-second>—Files destroyed per second.

<files-exported>—Files exported.

<files-exported-per-second>—Files exported per second.

<flow-record-processed>—Flow records processed.

<flow-record-processed-per-second>—Flow records processed per second.

<ftp-bytes>—FTP bytes.

<ftp-bytes-per-second>—FTP bytes per second.

<ftp-failures>—Number of ftp transfer failures.

<ftp-files>—FTP files.

<ftp-files-per-second>—FTP files per second.

<memory-free>—Memory free, in bytes.

<memory-used>—Memory used, in bytes.

<packet-icmp-drops>—Packets dropped because they were ICMP packets.

<packet-ip-fragment-drops>—Packets dropped because they were fragments.

<packet-no-memory-drops>—Packets dropped because of insufficient memory.

<packet-not-ip-drops>—Packets dropped because they were not IP packets.

<packet-not-ipv4-drops>—Packets dropped because they were not IPv4 packets.

<packet-not-jflow-drops>—Packets dropped because they were not JUNOS flow packets.

<packet-tcp-drops>—Packets dropped because they were TCP packets.

<packet-too-small-drops>—Packets dropped because they were too small.

<packet-unknown-drops>—Packets dropped because they were an unknown type.

<packets>—Packets.

<packets-per-second>—Packets per second.

<peak-blocks-allocated-per-second>—Peak blocks allocated per second.

<peak-blocks-freed-per-second>—Peak blocks freed per second.

<peak-blocks-unavailable-per-second>—Peak blocks unavailable per second.

<peak-bytes-per-second>—Peak bytes per second.

<peak-compressed-bytes-per-second>—Peak compressed bytes per second.

<peak-files-created-per-second>—Peak files created per second.

<peak-files-destroyed-per-second>—Peak files destroyed per second.

<peak-files-exported-per-second>—Peak files exported per second.

<peak-flow-record-processed-per-second>—Peak flow records processed per second.

<peak-ftp-bytes-per-second>—Peak FTP bytes per second.

<peak-ftp-files-per-second>—Peak FTP files per second.

<peak-packets-per-second>—Peak packets per second.

<peak-uncompressed-bytes-per-second>—Peak uncompressed bytes per second.

<uncompressed-bytes>—Uncompressed bytes.

<uncompressed-bytes-per-second>—Uncompressed bytes per second.

Summary of Secpolinfo Resource Utilization Response Tags

This section lists JUNOS XML tags that contain operational information about secpolinfo resource utilization information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-secpolinfo. To review the DTD for the tags, see "DTD for Secpolinfo Response Tags" on page 2471.

Summary of Services Accounting Response Tags

This section lists JUNOS XML tags that contain operational information about services accounting records. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-services-accounting. To review the DTD for the tags, see "DTD for Services Accounting Response Tags" on page 2473.

<detail-entry>

Usage

```
<flow-detail | flow-aggregate-template-detail-ipv4 | flow-aggregate-template-detail-mpls |
flow-aggregate-template-detail-mpls-ipv4 | flow-aggregate-template-detail-ipv6 |
flow-aggregate-as-detail | flow-aggregate-protocol-port-detail |
flow-aggregate-source-prefix-detail | flow-aggregate-destination-prefix-detail |
flow-aggregate-source-destination-prefix-detail>
  <detail-entry>
    <tos>tos</tos>
    <protocol>protocol</protocol>
    <tcp-flags>tcp-flags</tcp-flags>
    <source-address>source-address</source-address>
    <source-prefix-length>source-prefix-length</source-prefix-length>
    <destination-address>destination-address</destination-address>
    <destination-prefix-length>destination-prefix-length
                </destination-prefix-length>
    <source-port>source-port</source-port>
    <destination-port>destination-port</destination-port>
    <input-snmp-interface-index>input-snmp-interface-index
                </input-snmp-interface-index>
    <output-snmp-interface-index>output-snmp-interface-index
                </output-snmp-interface-index>
    <input-interface-name>input-interface-name</input-interface-name>
    <output-interface-name>output-interface-name</output-interface-name>
    <source-as>source-as</source-as>
    <destination-as>destination-as</destination-as>
    <start-time>start-time</start-time>
    <end-time>end-time</end-time>
    <packet-count>packet-count</packet-count>
    <byte-count>byte-count</byte-count>
    <last-active-timeout>...</last-active-timeout>
    <source-mask>source-mask</source-mask>
    <destination-mask>destination-mask</destination-mask>
    <icmp-type>icmp-type</icmp-type>
    <mpls-label-1>mpls-label-1</mpls-label-1>
    <mpls-label-2>mpls-label-2</mpls-label-2>
    <mpls-label-3>mpls-label-3</mpls-label-3>
    <source-ipv6-address>source-ipv6-address</source-ipv6-address>
    <destination-ipv6-address>destination-ipv6-address</destination-ipv6-address>
    <flow-count>flow-count</flow-count>
  </detail-entry>
</flow-detail | flow-aggregate-template-detail-ipv4 | flow-aggregate-template-detail-mpls
| flow-aggregate-template-detail-mpls-ipv4 | flow-aggregate-template-detail-ipv6 |
flow-aggregate-as-detail | flow-aggregate-protocol-port-detail |
flow-aggregate-source-prefix-detail | flow-aggregate-destination-prefix-detail |
flow-aggregate-source-destination-prefix-detail>
```

Description Detail entry.

Contents <byte-count>—Number of bytes in the flow.

<destination-address>—Destination address of flow.

<destination-as>—Destination autonomous system number.

<destination-ipv6-address>—Destination address of flow.

<destination-mask>—Destination mask.

<destination-port>—Destination port.

<destination-prefix-length>—Destination prefix length.

<end-time>—System uptime at end of flow.

<flow-count>—Number of flows in the aggregate.

<icmp-type>—ICMP type.

<input-interface-name>—Input interface name.

<input-snmp-interface-index>—Input SNMP interface index.

<last-active-timeout>—Last active timeout data.

<mpls-label-1>—MPLS label 1.

<mpls-label-2>—MPLS label 2.

<mpls-label-3>—MPLS label 3.

<output-interface-name>—Output interface name.

<output-snmp-interface-index>—Output SNMP interface index.

<packet-count>—Number of packets in the flow.

<protocol>—Protocol.

<source-address>—Source address of flow.

<source-as>—Source autonomous system number.

<source-ipv6-address>—Source address of flow.

<source-mask>—Source mask.

<source-port>—Source port.

<source-prefix-length>—Source prefix length.

<start-time>—System uptime at start of flow.

<tcp-flags>—TCP flags.

<tos>—Type of service.

<error-information>

Usage

```
<services-accounting-information>
  <error-information>
    <error-packets-dropped-no-memory>error-packets-dropped-no-memory
                </error-packets-dropped-no-memory>
    <error-packets-dropped-not-ip>error-packets-dropped-not-ip
                </error-packets-dropped-not-ip>
    <error-packets-dropped-not-ipv4>error-packets-dropped-not-ipv4
                </error-packets-dropped-not-ipv4>
    <error-packets-too-small>error-packets-too-small</error-packets-too-small>
    <error-allocation-failures>error-allocation-failures
                </error-allocation-failures>
    <error-free-failures>error-free-failures</error-free-failures>
    <error-free-list-failures>error-free-list-failures</error-free-list-failures>
    <error-memory-warning>error-memory-warning</error-memory-warning>
    <error-memory-overload>error-memory-overload</error-memory-overload>
    <error-packets-per-second-overload>error-packets-per-second-overload
                </error-packets-per-second-overload>
    <error-bytes-per-second-overload>error-bytes-per-second-overload
                </error-bytes-per-second-overload>
  </error-information>
</services-accounting-information>
```

Description Service accounting error information.

Contents <error-allocation-failures>—Number of failed attempts to allocate memory.

<error-bytes-per-second-overload>—Whether the number of incoming bytes exceeds the designed per-second limit.

<error-free-failures>—Number of failed attempts to free memory.

<error-free-list-failures>—Number of operations that failed because free list memory is exhausted.

<error-memory-overload>—Whether memory is exhausted.

<error-memory-warning>—Reached low memory condition.

<error-packets-dropped-no-memory>—Number of packets dropped because memory is exhausted.

<error-packets-dropped-not-ip>—Number of packets dropped because they are not IP.

<error-packets-dropped-not-ipv4>—Number of packets dropped because they are not IPv4.

<error-packets-per-second-overload>—Whether the number of incoming packets exceeds the designed per-second limit.

<error-packets-too-small>—Number of packets dropped because their header is too small.

<flow-aggregate-as-detail>

Usage
```
<services-accounting-information>
  <flow-aggregate-as-detail>
    <detail-entry>...</detail-entry>
  </flow-aggregate-as-detail>
</services-accounting-information>
```

Description Service accounting AS flow aggregate record detail.

Contents <detail-entry>—Detail entry.

<flow-aggregate-destination-prefix-detail>

Usage
```
<services-accounting-information>
  <flow-aggregate-destination-prefix-detail>
    <detail-entry>...</detail-entry>
  </flow-aggregate-destination-prefix-detail>
</services-accounting-information>
```

Description Service accounting destination prefix aggregate record detail.

Contents <detail-entry>—Detail entry.

<flow-aggregate-protocol-port-detail>

Usage
```
<services-accounting-information>
  <flow-aggregate-protocol-port-detail>
    <detail-entry>...</detail-entry>
  </flow-aggregate-protocol-port-detail>
</services-accounting-information>
```

Description Service accounting protocol-port aggregate record detail.

Contents <detail-entry>—Detail entry.

<flow-aggregate-source-destination-prefix-detail>

Usage
```
<services-accounting-information>
  <flow-aggregate-source-destination-prefix-detail>
    <detail-entry>...</detail-entry>
  </flow-aggregate-source-destination-prefix-detail>
</services-accounting-information>
```

Description Service accounting source-destination prefix aggregate record detail.

Contents <detail-entry>—Detail entry.

<flow-aggregate-source-prefix-detail>

Usage
```
<services-accounting-information>
  <flow-aggregate-source-prefix-detail>
    <detail-entry>...</detail-entry>
  </flow-aggregate-source-prefix-detail>
</services-accounting-information>
```

Description Service accounting source prefix aggregate record detail.

Contents <detail-entry>—Detail entry.

<flow-aggregate-template-detail>

Usage
```
<services-accounting-information>
  <flow-aggregate-template-detail>
    <flow-aggregate-template-detail-ipv4>...</flow-aggregate-template-detail-ipv4>
    <flow-aggregate-template-detail-mpls>...</flow-aggregate-template-detail-mpls>
    <flow-aggregate-template-detail-mpls-ipv4>...
                    </flow-aggregate-template-detail-mpls-ipv4>
    <flow-aggregate-template-detail-ipv6>...</flow-aggregate-template-detail-ipv6>
  </flow-aggregate-template-detail>
</services-accounting-information>
```

Description Service accounting template aggregate record detail.

Contents <flow-aggregate-template-detail-ipv4>—No documentation is available yet.

<flow-aggregate-template-detail-ipv6>—No documentation is available yet.

<flow-aggregate-template-detail-mpls>—No documentation is available yet.

<flow-aggregate-template-detail-mpls-ipv4>—No documentation is available yet.

<flow-aggregate-template-detail-ipv4>

Usage
```
<flow-aggregate-template-detail>
  <flow-aggregate-template-detail-ipv4>
    <detail-entry>...</detail-entry>
  </flow-aggregate-template-detail-ipv4>
</flow-aggregate-template-detail>
```

Description No documentation is available yet.

Contents <detail-entry>—Detail entry.

<flow-aggregate-template-detail-ipv6>

Usage
```
<flow-aggregate-template-detail>
  <flow-aggregate-template-detail-ipv6>
    <detail-entry>...</detail-entry>
  </flow-aggregate-template-detail-ipv6>
</flow-aggregate-template-detail>
```

Description No documentation is available yet.

Contents <detail-entry>—Detail entry.

<flow-aggregate-template-detail-mpls>

Usage
```
<flow-aggregate-template-detail>
  <flow-aggregate-template-detail-mpls>
    <detail-entry>...</detail-entry>
  </flow-aggregate-template-detail-mpls>
</flow-aggregate-template-detail>
```

Description No documentation is available yet.

Contents <detail-entry>—Detail entry.

<flow-aggregate-template-detail-mpls-ipv4>

Usage
```
<flow-aggregate-template-detail>
  <flow-aggregate-template-detail-mpls-ipv4>
    <detail-entry>...</detail-entry>
  </flow-aggregate-template-detail-mpls-ipv4>
</flow-aggregate-template-detail>
```

Description No documentation is available yet.

Contents <detail-entry>—Detail entry.

<flow-detail>

Usage
```
<services-accounting-information>
  <flow-detail>
    <detail-entry>...</detail-entry>
  </flow-detail>
</services-accounting-information>
```

Description Service accounting flow record detail.

Contents <detail-entry>—Detail entry.

<flow-information>

Usage

```
<services-accounting-information>
  <flow-information>
    <interface>interface</interface>
    <local_ifd_index>local_ifd_index</local_ifd_index>
    <flow-packets>flow-packets</flow-packets>
    <flow-bytes>flow-bytes</flow-bytes>
    <flow-packets-ten-second-rate>flow-packets-ten-second-rate
                </flow-packets-ten-second-rate>
    <flow-bytes-ten-second-rate>flow-bytes-ten-second-rate
                </flow-bytes-ten-second-rate>
    <active-flows>active-flows</active-flows>
    <flows>flows</flows>
    <flows-exported>flows-exported</flows-exported>
    <flow-packets-exported>flow-packets-exported</flow-packets-exported>
    <flows-expired>flows-expired</flows-expired>
    <flows-aged>flows-aged</flows-aged>
  </flow-information>
</services-accounting-information>
```

Description Service accounting flow information.

Contents <active-flows>—Active flows.

<flow-bytes>—Flow bytes.

<flow-bytes-ten-second-rate>—Flow bytes 10-second rate.

<flow-packets>—Flow packets.

<flow-packets-exported>—Flows packets exported.

<flow-packets-ten-second-rate>—Flow packets 10-second rate.

<flows>—Flows.

<flows-aged>—Flows active timed out.

<flows-expired>—Flows inactive timed out.

<flows-exported>—Flows exported.

<interface>—Interface name.

<local_ifd_index>—Local interface index.

<last-active-timeout>

Usage
```
<detail-entry>
  <last-active-timeout>
    <time-delta>time-delta</time-delta>
    <last-packet-count>last-packet-count</last-packet-count>
    <last-byte-count>last-byte-count</last-byte-count>
  </last-active-timeout>
</detail-entry>
```

Description Last active timeout data.

Contents <last-byte-count>—Bytes exported in last active timeout.

<last-packet-count>—Packets exported in last active timeout.

<time-delta>—Time since last active timeout.

<memory-information>

Usage
```
<services-accounting-information>
  <memory-information>
    <allocation-count>allocation-count</allocation-count>
    <free-count>free-count</free-count>
    <maximum-allocated>maximum-allocated</maximum-allocated>
    <allocations-per-second>allocations-per-second</allocations-per-second>
    <frees-per-second>frees-per-second</frees-per-second>
    <memory-used>memory-used</memory-used>
    <memory-free>memory-free</memory-free>
    <v9-memory-used>v9-memory-used</v9-memory-used>
  </memory-information>
</services-accounting-information>
```

Description Service accounting memory utilization.

Contents <allocation-count>—Flow record allocations.

<allocations-per-second>—Flow record allocations per second.

<free-count>—Flow record frees.

<frees-per-second>—Flow record frees per second.

<maximum-allocated>—Maximum flow records allocated.

<memory-free>—Total memory free.

<memory-used>—Total memory used.

<v9-memory-used>—Memory used by v9.

<packet-distribution-information>

Usage

```
<services-accounting-information>
  <packet-distribution-information>
    <packet-size-range-start>packet-size-range-start</packet-size-range-start>
    <packet-size-range-end>packet-size-range-end</packet-size-range-end>
    <range-number-packets>range-number-packets</range-number-packets>

<range-percentage-packets>range-percentage-packets</range-percentage-packets>
  </packet-distribution-information>
</services-accounting-information>
```

Description Service accounting packet distribution information.

Contents <packet-size-range-end>—End of packet size range.

<packet-size-range-start>—Start of packet size range.

<range-number-packets>—Number of packets in range.

<range-percentage-packets>—Percentage of packets in range.

<services-accounting-information>

Usage

```
<rpc-reply>
  <services-accounting-information>
    <service-name>service-name</service-name>
    <interface-name>interface-name</interface-name>
    <pic-status>pic-status</pic-status>
    <local-index>local-index</local-index>
    <usage-information>...</usage-information>
    <memory-information>...</memory-information>
    <flow-information>...</flow-information>
    <packet-distribution-information>...</packet-distribution-information>
    <error-information>...</error-information>
    <v9-error-information>...</v9-error-information>
    <status-information>...</status-information>
    <flow-detail>...</flow-detail>
    <flow-aggregate-template-detail>...</flow-aggregate-template-detail>
    <flow-aggregate-as-detail>...</flow-aggregate-as-detail>
    <flow-aggregate-protocol-port-detail>...</flow-aggregate-protocol-port-detail>
    <flow-aggregate-source-prefix-detail>...</flow-aggregate-source-prefix-detail>
    <flow-aggregate-destination-prefix-detail>...
                </flow-aggregate-destination-prefix-detail>
    <flow-aggregate-source-destination-prefix-detail>...
                </flow-aggregate-source-destination-prefix-detail>
  </services-accounting-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents

<error-information>—Service accounting error information.

<flow-aggregate-as-detail>—Service accounting AS flow aggregate record detail.

<flow-aggregate-destination-prefix-detail>—Service accounting destination prefix aggregate record detail.

<flow-aggregate-protocol-port-detail>—Service accounting protocol-port aggregate record detail.

<flow-aggregate-source-destination-prefix-detail>—Service accounting source-destination prefix aggregate record detail.

<flow-aggregate-source-prefix-detail>—Service accounting source prefix aggregate record detail.

<flow-aggregate-template-detail>—Service accounting template aggregate record detail.

<flow-detail>—Service accounting flow record detail.

<flow-information>—Service accounting flow information.

<interface-name>—Physical interface name.

<local-index>—Local physical interface index.

<memory-information>—Service accounting memory utilization.

<packet-distribution-information>—Service accounting packet distribution information.

<pic-status>—Current interface state.

<service-name>—Service name.

<status-information>—Service accounting status information.

<usage-information>—Service accounting CPU utilization.

<v9-error-information>—Jflow-v9 accounting error information.

<status-information>

Usage

```
<services-accounting-information>
  <status-information>
    <status-service-id>status-service-id</status-service-id>
    <status-export-interval>status-export-interval</status-export-interval>
    <status-export-format>status-export-format</status-export-format>
    <status-proto>status-proto</status-proto>
    <status-engine-type>status-engine-type</status-engine-type>
    <status-engine-id>status-engine-id</status-engine-id>
    <status-route-record-count>status-route-record-count
                </status-route-record-count>
    <status-ifl-snmp-map-count>status-ifl-snmp-map-count
                </status-ifl-snmp-map-count>
    <status-as-count>status-as-count</status-as-count>
    <status-monitor-time-set>status-monitor-time-set</status-monitor-time-set>
    <status-monitor-config-set>status-monitor-config-set
                </status-monitor-config-set>
    <status-monitor-route-record-set>status-monitor-route-record-set
                </status-monitor-route-record-set>
    <status-monitor-ifl-snmp-set>status-monitor-ifl-snmp-set
                </status-monitor-ifl-snmp-set>
  </status-information>
</services-accounting-information>
```

Description Service accounting status information.

Contents <status-as-count>—Autonomous system number count.

<status-engine-id>—Engine ID.

<status-engine-type>—Engine type.

<status-export-format>—Export format.

<status-export-interval>—Export interval, in seconds.

<status-ifl-snmp-map-count>—Local index to SNMP index count.

<status-monitor-config-set>—Configuration set on PIC.

<status-monitor-ifl-snmp-set>—Local index to SNMP index map set on PIC.

<status-monitor-route-record-set>—Route records set on PIC.

<status-monitor-time-set>—Time set on PIC.

<status-proto>—Protocol.

<status-route-record-count>—Route record count.

<status-service-id>—Service ID.

<usage-information>

Usage
```
<services-accounting-information>
  <usage-information>
    <uptime>uptime</uptime>
    <inttime>inttime</inttime>
    <five-second-load>five-second-load</five-second-load>
    <one-minute-load>one-minute-load</one-minute-load>
  </usage-information>
</services-accounting-information>
```

Description Service accounting CPU utilization.

Contents <five-second-load>—5-second load.

<inttime>—CPU interrupt time, in microseconds.

<one-minute-load>—1-minute load.

<uptime>—CPU uptime, in milliseconds.

<v9-error-information>

Usage
```
<services-accounting-information>
  <v9-error-information>
    <service-set-dropped>service-set-dropped</service-set-dropped>
    <active-timeout-failures>active-timeout-failures</active-timeout-failures>
    <export-packet-failures>export-packet-failures</export-packet-failures>
    <flow-creation-failures>flow-creation-failures</flow-creation-failures>
    <memory-overload>memory-overload</memory-overload>
  </v9-error-information>
</services-accounting-information>
```

Description Jflow-v9 accounting error information.

Contents <active-timeout-failures>—Number of active timeout failures.

<export-packet-failures>—Number of export packet failures.

<flow-creation-failures>—Number of flow creation failures.

<memory-overload>—Memory overload status.

<service-set-dropped>—Number of service set drops.

Summary of SMPL Respone Tags

This section lists JUNOS XML tags that contain operational information about SMPL next-hop group information response tags. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-smpl. To review the DTD for the tags, see "DTD for SMPL Response Tags" on page 2495.

<smpl-next-hop-group>

Usage

```
<rpc-reply>
  <smpl-next-hop-group>
    <smpl-nhgroup>...</smpl-nhgroup>
  </smpl-next-hop-group>
</rpc-reply>
```

Description Information about next-hop-groups.

Contents <smpl-nhgroup>—No documentation is available yet.

<smpl-nhgroup>

Usage

```
<smpl-next-hop-group>
  <smpl-nhgroup>
    <smpl-nhgroup-member-list>...</smpl-nhgroup-member-list>
    <smpl-nhgroup-subgroup>...</smpl-nhgroup-subgroup>
    <smpl-nhgroup-name>smpl-nhgroup-name</smpl-nhgroup-name>
    <smpl-nhgroup-type>smpl-nhgroup-type</smpl-nhgroup-type>
    <smpl-nhgroup-state>smpl-nhgroup-state</smpl-nhgroup-state>

<smpl-nhgroup-nhid-header>smpl-nhgroup-nhid-header</smpl-nhgroup-nhid-header>
    <smpl-nhgroup-num-members-configured>smpl-nhgroup-num-members-configured
            </smpl-nhgroup-num-members-configured>
    <smpl-nhgroup-num-members-up>smpl-nhgroup-num-members-up
            </smpl-nhgroup-num-members-up>
    <smpl-nhgroup-subgroups-configured>smpl-nhgroup-subgroups-configured
            </smpl-nhgroup-subgroups-configured>
    <smpl-nhgroup-subgroups-up>smpl-nhgroup-subgroups-up
            </smpl-nhgroup-subgroups-up>
  </smpl-nhgroup>
</smpl-next-hop-group>
```

Description No documentation is available yet.

Contents

<smpl-nhgroup-member-list>—No documentation is available yet.

<smpl-nhgroup-name>—Name of the next-hop-group.

<smpl-nhgroup-nhid-header>—Next-hop index header.

<smpl-nhgroup-num-members-configured>—Number of members interfaces that are configured.

<smpl-nhgroup-num-members-up>—Number of members interfaces that are up.

<smpl-nhgroup-state>—State of the next-hop-group.

<smpl-nhgroup-subgroup>—No documentation is available yet.

<smpl-nhgroup-subgroups-configured>—Number of subgroups that are configured.

<smpl-nhgroup-subgroups-up>—Number of subgroups that are up.

<smpl-nhgroup-type>—Type of the next-hop-group.

<smpl-nhgroup-member-list>

Usage

```
<smpl-nhgroup | smpl-port-mirror-output-family-list>
  <smpl-nhgroup-member-list>
    <smpl-nhgroup-member-interface>smpl-nhgroup-member-interface
                </smpl-nhgroup-member-interface>
    <smpl-nhgroup-nexthop-address>smpl-nhgroup-nexthop-address
                </smpl-nhgroup-nexthop-address>
    <smpl-nhgroup-nexthop-state>smpl-nhgroup-nexthop-state
                </smpl-nhgroup-nexthop-state>
    <smpl-nexthop-index>smpl-nexthop-index</smpl-nexthop-index>
  </smpl-nhgroup-member-list>
</smpl-nhgroup | smpl-port-mirror-output-family-list>
```

Description No documentation is available yet.

Contents <smpl-nexthop-index>—Next-hop index value.

<smpl-nhgroup-member-interface>—Name of the next-hop-group member interface.

<smpl-nhgroup-nexthop-address>—Nexthop address of the next-hop-group member interface.

<smpl-nhgroup-nexthop-state>—State of the next-hop.

<smpl-nhgroup-subgroup>

Usage

```
<smpl-nhgroup>
  <smpl-nhgroup-subgroup>
    <smpl-nhgroup-name>smpl-nhgroup-name</smpl-nhgroup-name>
    <smpl-nhgroup-state>smpl-nhgroup-state</smpl-nhgroup-state>
    <smpl-nhgroup-nexthop-state>smpl-nhgroup-nexthop-state
            </smpl-nhgroup-nexthop-state>
    <smpl-nexthop-index>smpl-nexthop-index</smpl-nexthop-index>

<smpl-nhgroup-nhid-header>smpl-nhgroup-nhid-header</smpl-nhgroup-nhid-header>

<smpl-subgroup-num-members-configured>smpl-subgroup-num-members-configured
            </smpl-subgroup-num-members-configured>
    <smpl-subgroup-num-members-up>smpl-subgroup-num-members-up
            </smpl-subgroup-num-members-up>
    <smpl-subgroup-member-list>...</smpl-subgroup-member-list>
  </smpl-nhgroup-subgroup>
</smpl-nhgroup>
```

Description No documentation is available yet.

Contents

<smpl-nexthop-index>—Next-hop index value.

<smpl-nhgroup-name>—Name of the next-hop-group.

<smpl-nhgroup-nexthop-state>—State of the next-hop.

<smpl-nhgroup-nhid-header>—Next-hop index header.

<smpl-nhgroup-state>—State of the next-hop-group.

<smpl-subgroup-member-list>—No documentation is available yet.

<smpl-subgroup-num-members-configured>—Number of subgroup members interfaces that are configured.

<smpl-subgroup-num-members-up>—Number of subgroup members interfaces that are up.

<smpl-port-mirror-output-family-list>

Usage

```
<smpl-port-mirroring-instance>
  <smpl-port-mirror-output-family-list>
    <smpl-output-family-name>smpl-output-family-name</smpl-output-family-name>
    <smpl-output-family-state>smpl-output-family-state</smpl-output-family-state>
    <smpl-output-family-destination>smpl-output-family-destination
                </smpl-output-family-destination>
    <smpl-nexthop-index>smpl-nexthop-index</smpl-nexthop-index>
    <smpl-nhgroup-member-list>...</smpl-nhgroup-member-list>
  </smpl-port-mirror-output-family-list>
</smpl-port-mirroring-instance>
```

Description No documentation is available yet.

Contents <smpl-nexthop-index>—Next-hop index value.

<smpl-nhgroup-member-list>—No documentation is available yet.

<smpl-output-family-destination>—Desintation interface/group of the family.

<smpl-output-family-name>—Family of the desintation.

<smpl-output-family-state>—State of desintation.

<smpl-port-mirroring>

Usage

```
<rpc-reply>
  <smpl-port-mirroring>
    <smpl-port-mirroring-instance>...</smpl-port-mirroring-instance>
  </smpl-port-mirroring>
</rpc-reply>
```

Description Information about port-mirroring instances.

Contents <smpl-port-mirroring-instance>—No documentation is available yet.

<smpl-port-mirroring-instance>

Usage

```
<smpl-port-mirroring>
  <smpl-port-mirroring-instance>
    <smpl-port-mirror-output-family-list>...</smpl-port-mirror-output-family-list>
    <smpl-instance-name>smpl-instance-name</smpl-instance-name>
    <smpl-instance-state>smpl-instance-state</smpl-instance-state>
    <smpl-instance-id>smpl-instance-id</smpl-instance-id>
    <smpl-instance-input-rate>smpl-instance-input-rate</smpl-instance-input-rate>
    <smpl-instance-input-run-length>smpl-instance-input-run-length
                </smpl-instance-input-run-length>

<smpl-instance-input-maximum-packet-length>smpl-instance-input-maximum-packet-leng
th
                </smpl-instance-input-maximum-packet-length>
    <smpl-instance-nhid-header>smpl-instance-nhid-header
                </smpl-instance-nhid-header>
  </smpl-port-mirroring-instance>
</smpl-port-mirroring>
```

Description No documentation is available yet.

Contents

<smpl-instance-id>—Instance identifier.

<smpl-instance-input-maximum-packet-length>—Maximum length of the mirrored packet.

<smpl-instance-input-rate>—Ratio of packets to be sampled (1 out of N).

<smpl-instance-input-run-length>—Number of samples after initial trigger.

<smpl-instance-name>—Name of the instance.

<smpl-instance-nhid-header>—Next-hop index header.

<smpl-instance-state>—State of the instance.

<smpl-port-mirror-output-family-list>—No documentation is available yet.

<smpl-subgroup-member-list>

Usage

```
<smpl-nhgroup-subgroup>
  <smpl-subgroup-member-list>
    <smpl-nhgroup-member-interface>smpl-nhgroup-member-interface
                </smpl-nhgroup-member-interface>
    <smpl-nhgroup-nexthop-address>smpl-nhgroup-nexthop-address
                </smpl-nhgroup-nexthop-address>
    <smpl-nhgroup-nexthop-state>smpl-nhgroup-nexthop-state
                </smpl-nhgroup-nexthop-state>
    <smpl-nexthop-index>smpl-nexthop-index</smpl-nexthop-index>
  </smpl-subgroup-member-list>
</smpl-nhgroup-subgroup>
```

Description No documentation is available yet.

Contents <smpl-nexthop-index>—Next-hop index value.

<smpl-nhgroup-member-interface>—Name of the next-hop-group member interface.

<smpl-nhgroup-nexthop-address>—Nexthop address of the next-hop-group member interface.

<smpl-nhgroup-nexthop-state>—State of the next-hop.

Summary of Shutdown Response Tags

This section lists JUNOS XML tags that contain operational information about routing platform shutdown. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-shutdown. To review the DTD for the tags, see "DTD for Shutdown Response Tags" on page 2483.

<clear-reboot-status>

Usage

```
<rpc-reply>
  <clear-reboot-status>
    <reboot-information-results>reboot-information-results
                </reboot-information-results>
    <clear-reboot-status-results>clear-reboot-status-results
                </clear-reboot-status-results>
  </clear-reboot-status>
</rpc-reply>
```

Description Clear any pending reboots.

Contents <clear-reboot-status-results>—Status of clear reboot request.

<reboot-information-results>—Reboot status.

<reboot-information>

Usage

```
<rpc-reply>
  <reboot-information>
    <reboot-information-results>reboot-information-results
                </reboot-information-results>
  </reboot-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <reboot-information-results>—Reboot status.

<request-reboot-results>

Usage

```
<rpc-reply>
  <request-reboot-results>
    <request-reboot-status>request-reboot-status</request-reboot-status>
  </request-reboot-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <request-reboot-status>—Reboot request status.

Summary of SNMP Response Tags

This section lists JUNOS XML tags that contain operational information about the Simple Network Management Protocol (SNMP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-snmp. To review the DTD for the tags, see "DTD for SNMP Response Tags" on page 2485.

<health-monitor-information>

Usage

```
<rpc-reply>
  <health-monitor-information>
    <rmon-alarm-information>...</rmon-alarm-information>
    <rmon-log-information>...</rmon-log-information>
    <rmon-history-information>...</rmon-history-information>
  </health-monitor-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rmon-alarm-information>—No documentation is available yet.

<rmon-history-information>—No documentation is available yet.

<rmon-log-information>—No documentation is available yet.

<history-sample>

Usage

```
<rmon-history-information>
  <history-sample>
    <history-sample-index>history-sample-index</history-sample-index>
    <history-sample-start-time>history-sample-start-time
                </history-sample-start-time>
    <history-sample-drop-events>history-sample-drop-events
                </history-sample-drop-events>
    <history-sample-octect>history-sample-octect</history-sample-octect>
    <history-sample-packets>history-sample-packets</history-sample-packets>
    <history-sample-broadcast-packets>history-sample-broadcast-packets
                </history-sample-broadcast-packets>
    <history-sample-multicast-packets>history-sample-multicast-packets
                </history-sample-multicast-packets>
    <history-sample-crc-errors>history-sample-crc-errors
                </history-sample-crc-errors>
    <history-sample-undersize-packets>history-sample-undersize-packets
                </history-sample-undersize-packets>
    <history-sample-oversize-packets>history-sample-oversize-packets
                </history-sample-oversize-packets>
    <history-sample-fragments>history-sample-fragments</history-sample-fragments>
    <history-sample-jabbers>history-sample-jabbers</history-sample-jabbers>
    <history-sample-collisions>history-sample-collisions
                </history-sample-collisions>
    <history-sample-utilization>history-sample-utilization
                </history-sample-utilization>
  </history-sample>
</rmon-history-information>
```

Description No documentation is available yet.

Contents <history-sample-broadcast-packets>—Number of broadcast packets.

<history-sample-collisions>—Number of collisions.

<history-sample-crc-errors>—Crc errors.

<history-sample-drop-events>—Sample drop events.

<history-sample-fragments>—Number of fragment.

<history-sample-index>—History sample instance identifier.

<history-sample-jabbers>—Number of jabbers.

<history-sample-multicast-packets>—Number of multicast packets.

<history-sample-octect>—Octets.

<history-sample-oversize-packets>—Number of oversize packets.

<history-sample-packets>—Packets.

<history-sample-start-time>—History sample collection start time .

<history-sample-undersize-packets>—Number of undersize packets.

<history-sample-utilization>—Utilization .

<index>

Usage

```
<snmp-object>
  <index>
    <index-name>index-name</index-name>
    <index-value>index-value</index-value>
  </index>
</snmp-object>
```

Description No documentation is available yet.

Contents <index-name>—SNMP index name.

<index-value>—SNMP index value.

<rmon-alarm>

Usage

```
<rmon-alarm-information>
  <rmon-alarm>
    <alarm-index>alarm-index</alarm-index>
    <var-name>var-name</var-name>
    <var-oid>var-oid</var-oid>
    <sample-type>sample-type</sample-type>
    <alarm-value>alarm-value</alarm-value>
    <startup>startup</startup>
    <alarm-interval>alarm-interval</alarm-interval>
    <rising-threshold>rising-threshold</rising-threshold>
    <falling-threshold>falling-threshold</falling-threshold>
    <rising-event-index>rising-event-index</rising-event-index>
    <falling-event-index>falling-event-index</falling-event-index>
    <alarm-owner>alarm-owner</alarm-owner>
    <alarm-subtag>alarm-subtag</alarm-subtag>
    <alarm-creator>alarm-creator</alarm-creator>
    <alarm-state>alarm-state</alarm-state>
    <rmon-alarm-instance-information>...</rmon-alarm-instance-information>
  </rmon-alarm>
</rmon-alarm-information>
```

Description No documentation is available yet.

Contents

<alarm-creator>—Method by which entry was created.

<alarm-index>—Alarm instance identifier.

<alarm-interval>—Interval between samples, in seconds.

<alarm-owner>—Name of owner of this entry.

<alarm-state>—Current state of the entry.

<alarm-subtag>—Additional tag added to system logs for this entry.

<alarm-value>—Most recently monitored value.

<falling-event-index>—Event generated when a falling alarm is sent.

<falling-threshold>—Falling alarm threshold.

<rising-event-index>—Event generated when a rising alarm is sent.

<rising-threshold>—Rising alarm threshold.

<rmon-alarm-instance-information>—Information about one or more alarm instances.

<sample-type>—Method of sampling the monitored variable.

<startup>—Alarm that might be sent when entry is activated.

<var-name>—Monitored variable name.

<var-oid>—Monitored variable OID.

<rmon-alarm-information>

Usage

```
<rmon-information | health-monitor-information>
  <rmon-alarm-information>
    <rmon-alarm>...</rmon-alarm>
  </rmon-alarm-information>
</rmon-information | health-monitor-information>
```

Description No documentation is available yet.

Contents <rmon-alarm>—No documentation is available yet.

<rmon-alarm-instance>

Usage

```
<rmon-alarm-instance-information>
  <rmon-alarm-instance>
    <inst-var-name>inst-var-name</inst-var-name>
    <inst-description>inst-description</inst-description>
    <inst-value>inst-value</inst-value>
    <inst-state>inst-state</inst-state>
  </rmon-alarm-instance>
</rmon-alarm-instance-information>
```

Description Information about an alarm instance.

Contents <inst-description>—Monitored variable description.

<inst-state>—Current state of the alarm instance.

<inst-value>—Most recently monitored value.

<inst-var-name>—Monitored variable name.

<rmon-alarm-instance-information>

Usage

```
<rmon-alarm>
  <rmon-alarm-instance-information>
    <rmon-alarm-instance>...</rmon-alarm-instance>
  </rmon-alarm-instance-information>
</rmon-alarm>
```

Description Information about one or more alarm instances.

Contents <rmon-alarm-instance>—Information about an alarm instance.

<rmon-event>

Usage

```
<rmon-event-information>
  <rmon-event>
    <event-index>event-index</event-index>
    <event-descr>event-descr</event-descr>
    <event-type>event-type</event-type>
    <community>community</community>
    <last-time-sent>last-time-sent</last-time-sent>
    <event-owner>event-owner</event-owner>
    <event-creator>event-creator</event-creator>
    <event-state>event-state</event-state>
  </rmon-event>
</rmon-event-information>
```

Description No documentation is available yet.

Contents <community>—Trap group to which trap is sent.

<event-creator>—Method by which the entry was created.

<event-descr>—Comment describing the event entry.

<event-index>—Event instance identifier.

<event-owner>—Name of owner of the event.

<event-state>—Current state of the entry.

<event-type>—Type of notification made about this event.

<last-time-sent>—Time this event was last generated.

<rmon-event-information>

Usage

```
<rmon-information>
  <rmon-event-information>
    <rmon-event>...</rmon-event>
  </rmon-event-information>
</rmon-information>
```

Description No documentation is available yet.

Contents <rmon-event>—No documentation is available yet.

<rmon-history>

Usage

```
<rmon-history-information>
  <rmon-history>
    <history-index>history-index</history-index>
    <history-interface>history-interface</history-interface>
    <history-requested-buckets>history-requested-buckets
                  </history-requested-buckets>
    <history-interval>history-interval</history-interval>
    <history-owner>history-owner</history-owner>
    <history-status>history-status</history-status>
  </rmon-history>
</rmon-history-information>
```

Description No documentation is available yet.

Contents <history-index>—History instance identifier.

<history-interface>—Comment describing the RMON interface.

<history-interval>—Interval for statistics collection on the RMON interface.

<history-owner>—Owner for RMON history.

<history-requested-buckets>—Requested buckets for the RMON interface.

<history-status>—Status of RMON history.

<rmon-history-information>

Usage

```
<rmon-information | health-monitor-information>
  <rmon-history-information>
    <rmon-history>...</rmon-history>
    <history-sample>...</history-sample>
  </rmon-history-information>
</rmon-information | health-monitor-information>
```

Description No documentation is available yet.

Contents <history-sample>—No documentation is available yet.

<rmon-history>—No documentation is available yet.

<rmon-information>

Usage
```
<rpc-reply>
  <rmon-information>
    <rmon-alarm-information>...</rmon-alarm-information>
    <rmon-event-information>...</rmon-event-information>
    <rmon-history-information>...</rmon-history-information>
  </rmon-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <rmon-alarm-information>—No documentation is available yet.

<rmon-event-information>—No documentation is available yet.

<rmon-history-information>—No documentation is available yet.

<rmon-log>

Usage
```
<rmon-log-information>
  <rmon-log>
    <rmon-log-event-index>rmon-log-event-index</rmon-log-event-index>
    <rmon-log-index>rmon-log-index</rmon-log-index>
    <rmon-log-descr>rmon-log-descr</rmon-log-descr>
    <rmon-log-time>rmon-log-time</rmon-log-time>
  </rmon-log>
</rmon-log-information>
```

Description No documentation is available yet.

Contents <rmon-log-descr>—Log description.

<rmon-log-event-index>—Event instance identifier.

<rmon-log-index>—Log instance identifier.

<rmon-log-time>—Time this event was last generated.

<rmon-log-information>

Usage
```
<health-monitor-information>
  <rmon-log-information>
    <rmon-log>...</rmon-log>
  </rmon-log-information>
</health-monitor-information>
```

Description No documentation is available yet.

Contents <rmon-log>—No documentation is available yet.

<snmp-generate-trap-results>

Usage

```
<rpc-reply>
  <snmp-generate-trap-results>
    <snmp-generate-trap-result>snmp-generate-trap-result
                    </snmp-generate-trap-result>
  </snmp-generate-trap-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <snmp-generate-trap-result>—Result of SNMP 'generate-trap' request.

<snmp-input-statistics>

Usage

```
<snmp-statistics>
  <snmp-input-statistics>
    <packets>packets</packets>
    <bad-versions>bad-versions</bad-versions>
    <bad-community-names>bad-community-names</bad-community-names>
    <bad-community-uses>bad-community-uses</bad-community-uses>
    <asn-parse-errors>asn-parse-errors</asn-parse-errors>
    <too-bigs>too-bigs</too-bigs>
    <no-such-names>no-such-names</no-such-names>
    <bad-values>bad-values</bad-values>
    <read-onlys>read-onlys</read-onlys>
    <general-errors>general-errors</general-errors>
    <total-request-varbinds>total-request-varbinds</total-request-varbinds>
    <total-set-varbinds>total-set-varbinds</total-set-varbinds>
    <get-requests>get-requests</get-requests>
    <get-nexts>get-nexts</get-nexts>
    <set-requests>set-requests</set-requests>
    <get-responses>get-responses</get-responses>
    <traps>traps</traps>
    <silent-drops>silent-drops</silent-drops>
    <proxy-drops>proxy-drops</proxy-drops>
    <throttle-drops>throttle-drops</throttle-drops>
    <commit-pending-drops>commit-pending-drops</commit-pending-drops>
    <duplicate-request-drops>duplicate-request-drops</duplicate-request-drops>
  </snmp-input-statistics>
</snmp-statistics>
```

Description No documentation is available yet.

Contents

<asn-parse-errors>—No documentation is available yet.

<bad-community-names>—No documentation is available yet.

<bad-community-uses>—No documentation is available yet.

<bad-values>—No documentation is available yet.

<bad-versions>—No documentation is available yet.

<commit-pending-drops>—No documentation is available yet.

<duplicate-request-drops>—Number of duplicate requests that were dropped.

<general-errors>—No documentation is available yet.

<get-nexts>—No documentation is available yet.

<get-requests>—No documentation is available yet.

<get-responses>—No documentation is available yet.

<no-such-names>—No documentation is available yet.

<packets>—No documentation is available yet.

<proxy-drops>—No documentation is available yet.

<read-onlys>—No documentation is available yet.

<set-requests>—No documentation is available yet.

<silent-drops>—No documentation is available yet.

<throttle-drops>—No documentation is available yet.

<too-bigs>—No documentation is available yet.

<total-request-varbinds>—No documentation is available yet.

<total-set-varbinds>—No documentation is available yet.

<traps>—No documentation is available yet.

<snmp-object>

Usage

```
<snmp-object-information>
  <snmp-object>
    <name>name</name>
    <index>...</index>
    <oid>oid</oid>
    <object-value>object-value</object-value>
    <object-value-type>object-value-type</object-value-type>
    <error>error</error>
  </snmp-object>
</snmp-object-information>
```

Description No documentation is available yet.

Contents <error>—SNMP object error.

<index>—No documentation is available yet.

<name>—SNMP object name.

<object-value>—SNMP object value.

<object-value-type>—No documentation is available yet.

<oid>—SNMP object identifier.

<snmp-object-information>

Usage

```
<rpc-reply>
  <snmp-object-information>
    <snmp-object>...</snmp-object>
    <snmp-request-error>...</snmp-request-error>
  </snmp-object-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <snmp-object>—No documentation is available yet.

<snmp-request-error>—No documentation is available yet.

<snmp-output-statistics>

Usage

```
<snmp-statistics>
  <snmp-output-statistics>
    <packets>packets</packets>
    <too-bigs>too-bigs</too-bigs>
    <no-such-names>no-such-names</no-such-names>
    <bad-values>bad-values</bad-values>
    <general-errors>general-errors</general-errors>
    <get-requests>get-requests</get-requests>
    <get-nexts>get-nexts</get-nexts>
    <set-requests>set-requests</set-requests>
    <get-responses>get-responses</get-responses>
    <traps>traps</traps>
  </snmp-output-statistics>
</snmp-statistics>
```

Description No documentation is available yet.

Contents <bad-values>—No documentation is available yet.

<general-errors>—No documentation is available yet.

<get-nexts>—No documentation is available yet.

<get-requests>—No documentation is available yet.

<get-responses>—No documentation is available yet.

<no-such-names>—No documentation is available yet.

<packets>—No documentation is available yet.

<set-requests>—No documentation is available yet.

<too-bigs>—No documentation is available yet.

<traps>—No documentation is available yet.

<snmp-request-error>

Usage

```
<snmp-object-information>
  <snmp-request-error>
    <snmp-req-error-value>snmp-req-error-value</snmp-req-error-value>
  </snmp-request-error>
</snmp-object-information>
```

Description No documentation is available yet.

Contents <snmp-req-error-value>—SNMP request error.

<snmp-set-stats>

Usage

```
<snmp-statistics>
  <snmp-set-stats>
    <nvs-commit-pending>nvs-commit-pending</nvs-commit-pending>
    <nvs-conflock-failures>nvs-conflock-failures</nvs-conflock-failures>
    <nvs-rpc-mgd-failures>nvs-rpc-mgd-failures</nvs-rpc-mgd-failures>
    <nvs-journal-write-failures>nvs-journal-write-failures
                </nvs-journal-write-failures>
    <nvs-mgd-connect-failures>nvs-mgd-connect-failures</nvs-mgd-connect-failures>
    <nvs-commit-failures>nvs-commit-failures</nvs-commit-failures>
  </snmp-set-stats>
</snmp-statistics>
```

Description No documentation is available yet.

Contents <nvs-commit-failures>—Set requests failed because of a general commit error.

<nvs-commit-pending>—Set requests failed because of a pending commit.

<nvs-conflock-failures>—Set requests failed because of configuration lock conflict.

<nvs-journal-write-failures>—Set requests failed because of journal write error.

<nvs-mgd-connect-failures>—Set requests failed because snmpd could not connect to mgd.

<nvs-rpc-mgd-failures>—Set requests failed because of a management daemon rpc error.

<snmp-spoof-trap-results>

Usage

```
<rpc-reply>
  <snmp-spoof-trap-results>
    <snmp-spoof-trap-result>snmp-spoof-trap-result</snmp-spoof-trap-result>
    <snmp-spoofable-traps>snmp-spoofable-traps</snmp-spoofable-traps>
  </snmp-spoof-trap-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <snmp-spoof-trap-result>—Result of SNMP 'spoof-trap' request.

<snmp-spoofable-traps>—SNMP traps supported for spoofing.

<snmp-statistics>

Usage

```
<rpc-reply>
  <snmp-statistics>
    <snmp-input-statistics>...</snmp-input-statistics>
    <snmp-v3-input-statistics>...</snmp-v3-input-statistics>
    <snmp-output-statistics>...</snmp-output-statistics>
    <sub-agent-control-blocks>...</sub-agent-control-blocks>
    <sub-agent-registration>...</sub-agent-registration>
    <trap-queue-stats>...</trap-queue-stats>
    <trap-throttle-stats>...</trap-throttle-stats>
    <snmp-set-stats>...</snmp-set-stats>
  </snmp-statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <snmp-input-statistics>—No documentation is available yet.

<snmp-output-statistics>—No documentation is available yet.

<snmp-set-stats>—No documentation is available yet.

<snmp-v3-input-statistics>—No documentation is available yet.

<sub-agent-control-blocks>—No documentation is available yet.

<sub-agent-registration>—No documentation is available yet.

<trap-queue-stats>—No documentation is available yet.

<trap-throttle-stats>—No documentation is available yet.

<snmp-v3-access>

Usage

```
<snmp-v3-access-information>
  <snmp-v3-access>
    <group-name>group-name</group-name>
    <context-prefix>context-prefix</context-prefix>
    <security-model>security-model</security-model>
    <security-level>security-level</security-level>
    <context-match>context-match</context-match>
    <read-view>read-view</read-view>
    <write-view>write-view</write-view>
    <notify-view>notify-view</notify-view>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-access>
</snmp-v3-access-information>
```

Description No documentation is available yet.

Contents <context-match>—No documentation is available yet.

<context-prefix>—Context prefix.

<group-name>—Group name.

<notify-view>—MIB view allowed for notifications.

<read-view>—MIB view allowed for read access.

<row-status>—Status for this entry.

<security-level>—Security level.

<security-model>—Security model.

<storage-type>—Type of storage for this entry.

<write-view>—MIB view allowed for write access.

<snmp-v3-access-information>

Usage

```
<snmp-v3-information>
  <snmp-v3-access-information>
    <snmp-v3-access>...</snmp-v3-access>
  </snmp-v3-access-information>
</snmp-v3-information>
```

Description No documentation is available yet.

Contents <snmp-v3-access>—No documentation is available yet.

<snmp-v3-community>

Usage
```
<snmp-v3-community-information>
  <snmp-v3-community>
    <community-index>community-index</community-index>
    <security-name>security-name</security-name>
    <context-name>context-name</context-name>
    <transport-tag>transport-tag</transport-tag>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-community>
</snmp-v3-community-information>
```

Description SNMPv3 community.

Contents <community-index>—Community index in this community table entry.

<context-name>—Context name used when performing access control.

<row-status>—Status for this entry.

<security-name>—Security name.

<storage-type>—Type of storage for this entry.

<transport-tag>—Transport tag used to identify a set of targets.

<snmp-v3-community-information>

Usage
```
<snmp-v3-information>
  <snmp-v3-community-information>
    <snmp-v3-community>...</snmp-v3-community>
  </snmp-v3-community-information>
</snmp-v3-information>
```

Description SNMPv3 community information.

Contents <snmp-v3-community>—SNMPv3 community.

<snmp-v3-engine-information>

Usage

```
<snmp-v3-general-information>
  <snmp-v3-engine-information>
    <engine-id>engine-id</engine-id>
    <engine-boots>engine-boots</engine-boots>
    <engine-time>engine-time</engine-time>
    <max-msg-size>max-msg-size</max-msg-size>
  </snmp-v3-engine-information>
</snmp-v3-general-information>
```

Description No documentation is available yet.

Contents <engine-boots>—Number of times this engine has booted.

<engine-id>—Engine ID.

<engine-time>—Number of seconds since this engine has booted.

<max-msg-size>—Maximum message size allowed by this engine.

<snmp-v3-general-information>

Usage

```
<snmp-v3-information>
  <snmp-v3-general-information>
    <snmp-v3-engine-information>...</snmp-v3-engine-information>
  </snmp-v3-general-information>
</snmp-v3-information>
```

Description No documentation is available yet.

Contents <snmp-v3-engine-information>—No documentation is available yet.

<snmp-v3-group>

Usage
```
<snmp-v3-group-information>
  <snmp-v3-group>
    <group-name>group-name</group-name>
    <security-model>security-model</security-model>
    <security-name>security-name</security-name>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-group>
</snmp-v3-group-information>
```

Description No documentation is available yet.

Contents <group-name>—Group name.

<row-status>—Status for this entry.

<security-model>—Security model.

<security-name>—Security name.

<storage-type>—Type of storage for this entry.

<snmp-v3-group-information>

Usage
```
<snmp-v3-information>
  <snmp-v3-group-information>
    <snmp-v3-group>...</snmp-v3-group>
  </snmp-v3-group-information>
</snmp-v3-information>
```

Description No documentation is available yet.

Contents <snmp-v3-group>—No documentation is available yet.

<snmp-v3-information>

Usage

```
<rpc-reply>
  <snmp-v3-information>
    <snmp-v3-general-information>...</snmp-v3-general-information>
    <snmp-v3-usm-user-information>...</snmp-v3-usm-user-information>
    <snmp-v3-group-information>...</snmp-v3-group-information>
    <snmp-v3-access-information>...</snmp-v3-access-information>
    <snmp-v3-target-information>...</snmp-v3-target-information>
    <snmp-v3-notify-information>...</snmp-v3-notify-information>
    <snmp-v3-notify-filter-information>...</snmp-v3-notify-filter-information>
    <snmp-v3-community-information>...</snmp-v3-community-information>
  </snmp-v3-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <snmp-v3-access-information>—No documentation is available yet.

<snmp-v3-community-information>—SNMPv3 community information.

<snmp-v3-general-information>—No documentation is available yet.

<snmp-v3-group-information>—No documentation is available yet.

<snmp-v3-notify-filter-information>—SNMPv3 notify filter information.

<snmp-v3-notify-information>—SNMPv3 notify information.

<snmp-v3-target-information>—No documentation is available yet.

<snmp-v3-usm-user-information>—No documentation is available yet.

<snmp-v3-input-statistics>

Usage

```
<snmp-statistics>
  <snmp-v3-input-statistics>
    <unknown-secmodels>unknown-secmodels</unknown-secmodels>
    <invalid-msgs>invalid-msgs</invalid-msgs>
    <unknown-pduhandlers>unknown-pduhandlers</unknown-pduhandlers>
    <unavail-contexts>unavail-contexts</unavail-contexts>
    <unknown-contexts>unknown-contexts</unknown-contexts>
    <unsupported-seclevels>unsupported-seclevels</unsupported-seclevels>
    <not-in-timewindows>not-in-timewindows</not-in-timewindows>
    <unknown-usernames>unknown-usernames</unknown-usernames>
    <unknown-eids>unknown-eids</unknown-eids>
    <wrong-digests>wrong-digests</wrong-digests>
    <decrypt-errors>decrypt-errors</decrypt-errors>
  </snmp-v3-input-statistics>
</snmp-statistics>
```

Description No documentation is available yet.

Contents

<decrypt-errors>—No documentation is available yet.

<invalid-msgs>—No documentation is available yet.

<not-in-timewindows>—No documentation is available yet.

<unavail-contexts>—No documentation is available yet.

<unknown-contexts>—No documentation is available yet.

<unknown-eids>—No documentation is available yet.

<unknown-pduhandlers>—No documentation is available yet.

<unknown-secmodels>—No documentation is available yet.

<unknown-usernames>—No documentation is available yet.

<unsupported-seclevels>—No documentation is available yet.

<wrong-digests>—No documentation is available yet.

<snmp-v3-notify>

Usage

```
<snmp-v3-notify-information>
  <snmp-v3-notify>
    <notify-name>notify-name</notify-name>
    <notify-tag>notify-tag</notify-tag>
    <notify-type>notify-type</notify-type>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-notify>
</snmp-v3-notify-information>
```

Description SNMPv3 notify.

Contents <notify-name>—Notify name.

<notify-tag>—Notify tag used to identify all acceptable targets.

<notify-type>—No documentation is available yet.

<row-status>—Status for this entry.

<storage-type>—Type of storage for this entry.

<snmp-v3-notify-filter>

Usage

```
<snmp-v3-notify-filter-information>
  <snmp-v3-notify-filter>
    <filter-name>filter-name</filter-name>
    <subtree>subtree</subtree>
    <filter-type>filter-type</filter-type>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-notify-filter>
</snmp-v3-notify-filter-information>
```

Description SNMPv3 notify filter.

Contents <filter-name>—Notify filter name.

<filter-type>—No documentation is available yet.

<row-status>—Status for this entry.

<storage-type>—Type of storage for this entry.

<subtree>—MIB subtree for this filter.

<snmp-v3-notify-filter-information>

Usage
```
<snmp-v3-information>
  <snmp-v3-notify-filter-information>
    <snmp-v3-notify-filter>...</snmp-v3-notify-filter>
  </snmp-v3-notify-filter-information>
</snmp-v3-information>
```

Description SNMPv3 notify filter information.

Contents <snmp-v3-notify-filter>—SNMPv3 notify filter.

<snmp-v3-notify-information>

Usage
```
<snmp-v3-information>
  <snmp-v3-notify-information>
    <snmp-v3-notify>...</snmp-v3-notify>
  </snmp-v3-notify-information>
</snmp-v3-information>
```

Description SNMPv3 notify information.

Contents <snmp-v3-notify>—SNMPv3 notify.

<snmp-v3-target-address-information>

Usage
```
<snmp-v3-target-information>
  <snmp-v3-target-address-information>
    <snmp-v3-target_address>...</snmp-v3-target_address>
  </snmp-v3-target-address-information>
</snmp-v3-target-information>
```

Description SNMPv3 target address information.

Contents <snmp-v3-target_address>—SNMPv3 target address.

<snmp-v3-target-information>

Usage
```
<snmp-v3-information>
  <snmp-v3-target-information>
    <snmp-v3-target-address-information>...</snmp-v3-target-address-information>
    <snmp-v3-target-parameters-information>...
                    </snmp-v3-target-parameters-information>
  </snmp-v3-target-information>
</snmp-v3-information>
```

Description No documentation is available yet.

Contents <snmp-v3-target-address-information>—SNMPv3 target address information.

<snmp-v3-target-parameters-information>—SNMPv3 target parameters information.

<snmp-v3-target-parameters-information>

Usage

```
<snmp-v3-target-information>
  <snmp-v3-target-parameters-information>
    <snmp-v3-target_parameters>...</snmp-v3-target_parameters>
  </snmp-v3-target-parameters-information>
</snmp-v3-target-information>
```

Description SNMPv3 target parameters information.

Contents <snmp-v3-target_parameters>—SNMPv3 target parameters.

<snmp-v3-target_address>

Usage

```
<snmp-v3-target-address-information>
  <snmp-v3-target_address>
    <target-address-name>target-address-name</target-address-name>
    <address>address</address>
    <port>port</port>
    <target-parameters-name>target-parameters-name</target-parameters-name>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-target_address>
</snmp-v3-target-address-information>
```

Description SNMPv3 target address.

Contents <address>—Target address.

<port>—Target port number.

<row-status>—Status for this entry.

<storage-type>—Type of storage for this entry.

<target-address-name>—Target address name in target address table.

<target-parameters-name>—Target parameters name.

<snmp-v3-target_parameters>

Usage

```
<snmp-v3-target-parameters-information>
  <snmp-v3-target_parameters>
    <target-parameters-name>target-parameters-name</target-parameters-name>
    <security-name>security-name</security-name>
    <security-model>security-model</security-model>
    <security-level>security-level</security-level>
    <notify-filter-name>notify-filter-name</notify-filter-name>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-target_parameters>
</snmp-v3-target-parameters-information>
```

Description SNMPv3 target parameters.

Contents <notify-filter-name>—Notify filter name in the notify filter table.

<row-status>—Status for this entry.

<security-level>—Security level.

<security-model>—Security model.

<security-name>—Security name.

<storage-type>—Type of storage for this entry.

<target-parameters-name>—Target parameters name.

<snmp-v3-usm-user>

Usage

```
<snmp-v3-usm-user-information>
  <snmp-v3-usm-user>
    <user-name>user-name</user-name>
    <auth-type>auth-type</auth-type>
    <priv-type>priv-type</priv-type>
    <storage-type>storage-type</storage-type>
    <row-status>row-status</row-status>
  </snmp-v3-usm-user>
</snmp-v3-usm-user-information>
```

Description No documentation is available yet.

Contents <auth-type>—Type of authentication required by this user.

<priv-type>—Type of encryption required by this user.

<row-status>—Status for this entry.

<storage-type>—Type of storage for this entry.

<user-name>—User name.

<snmp-v3-usm-user-engine-id>

Usage

```
<snmp-v3-usm-user-information>
  <snmp-v3-usm-user-engine-id>
    <user-engine-id>user-engine-id</user-engine-id>
  </snmp-v3-usm-user-engine-id>
</snmp-v3-usm-user-information>
```

Description No documentation is available yet.

Contents <user-engine-id>—Engine ID.

<snmp-v3-usm-user-information>

Usage

```
<snmp-v3-information>
  <snmp-v3-usm-user-information>
    <snmp-v3-usm-user-engine-id>...</snmp-v3-usm-user-engine-id>
    <snmp-v3-usm-user>...</snmp-v3-usm-user>
  </snmp-v3-usm-user-information>
</snmp-v3-information>
```

Description No documentation is available yet.

Contents <snmp-v3-usm-user>—No documentation is available yet.

<snmp-v3-usm-user-engine-id>—No documentation is available yet.

<sub-agent-control-blocks>

Usage

```
<snmp-statistics>
  <sub-agent-control-blocks>
    <total>total</total>
    <currently-active>currently-active</currently-active>
    <max-active>max-active</max-active>
    <not-found>not-found</not-found>
    <timed-out>timed-out</timed-out>
    <max-latency>max-latency</max-latency>
  </sub-agent-control-blocks>
</snmp-statistics>
```

Description No documentation is available yet.

Contents <currently-active>—No documentation is available yet.

<max-active>—No documentation is available yet.

<max-latency>—No documentation is available yet.

<not-found>—No documentation is available yet.

<timed-out>—No documentation is available yet.

<total>—No documentation is available yet.

<sub-agent-registration>

Usage
```
<snmp-statistics>
  <sub-agent-registration>
    <group-registers>group-registers</group-registers>
    <group-deregisters>group-deregisters</group-deregisters>
    <group-removes>group-removes</group-removes>
  </sub-agent-registration>
</snmp-statistics>
```

Description No documentation is available yet.

Contents <group-deregisters>—No documentation is available yet.

<group-registers>—No documentation is available yet.

<group-removes>—No documentation is available yet.

<trap-queue-stats>

Usage
```
<snmp-statistics>
  <trap-queue-stats>
    <current-queued>current-queued</current-queued>
    <total-queued>total-queued</total-queued>
    <total-discards>total-discards</total-discards>
    <total-overflows>total-overflows</total-overflows>
  </trap-queue-stats>
</snmp-statistics>
```

Description No documentation is available yet.

Contents <current-queued>—No documentation is available yet.

<total-discards>—No documentation is available yet.

<total-overflows>—No documentation is available yet.

<total-queued>—No documentation is available yet.

<trap-throttle-stats>

Usage
```
<snmp-statistics>
  <trap-throttle-stats>
    <current-throttled>current-throttled</current-throttled>
    <total-throttles>total-throttles</total-throttles>
  </trap-throttle-stats>
</snmp-statistics>
```

Description No documentation is available yet.

Contents <current-throttled>—No documentation is available yet.

<total-throttles>—No documentation is available yet.

Summary of Static Subscribers Response Tags

This section lists JUNOS XML tags that contain operational information about the Static Subscriber element. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-static-subscribers. To review the DTD for the tags, see "DTD for Static Subscribers Response Tags" on page 2497.

<results>

Usage

```
<static-subscribers-information>
  <results>
    <success/>
    <failure>failure</failure>
  </results>
</static-subscribers-information>
```

Description Result for static subscriber operation.

Contents <failure>—Static subscriber operation failed.

<success>—Static subscriber operation succeed.

<static-subscribers-information>

Usage

```
<rpc-reply>
  <static-subscribers-information>
    <results>...</results>
    <subscriber-session>...</subscriber-session>
  </static-subscribers-information>
</rpc-reply>
```

Description Static subscribers information.

Contents <results>—Result for static subscriber operation.

<subscriber-session>—No documentation is available yet.

<subscriber-session>

Usage

```
<static-subscribers-information>
  <subscriber-session>
    <username>username</username>
    <interface>interface</interface>
    <group>group</group>
    <state>state</state>
  </subscriber-session>
</static-subscribers-information>
```

Description No documentation is available yet.

Contents <group>—Group name.

<interface>—Interface name.

<state>—Session state.

<username>—User name.

Summary of Statistics Response Tags

This section lists JUNOS XML tags that contain operational information about the Statistics element. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-statistics. To review the DTD for the tags, see "DTD for Statistics Response Tags" on page 2331.

<arp>

Usage

```
<statistics>
  <arp>
    <datagrams-received>datagrams-received</datagrams-received>
    <arp-requests-received>arp-requests-received</arp-requests-received>
    <arp-replies-received>arp-replies-received</arp-replies-received>
    <resolution-request-received>resolution-request-received
                </resolution-request-received>
    <unrestricted-proxy-requests>unrestricted-proxy-requests
                </unrestricted-proxy-requests>
    <restricted-proxy-requests>restricted-proxy-requests
                </restricted-proxy-requests>
    <received-proxy-requests>received-proxy-requests</received-proxy-requests>
    <proxy-requests-not-proxied>proxy-requests-not-proxied
                </proxy-requests-not-proxied>
    <restricted-proxy-requests-not-proxied>restricted-proxy-requests-not-proxied
                </restricted-proxy-requests-not-proxied>
    <datagrams-with-bogus-interface>datagrams-with-bogus-interface
                </datagrams-with-bogus-interface>
    <datagrams-with-incorrect-length>datagrams-with-incorrect-length
                </datagrams-with-incorrect-length>
    <datagrams-for-non-ip-protocol>datagrams-for-non-ip-protocol
                </datagrams-for-non-ip-protocol>
    <datagrams-with-unsupported-opcode>datagrams-with-unsupported-opcode
                </datagrams-with-unsupported-opcode>

<datagrams-with-bad-protocol-address-length>datagrams-with-bad-protocol-address-leng
th
                </datagrams-with-bad-protocol-address-length>

<datagrams-with-bad-hardware-address-length>datagrams-with-bad-hardware-address-le
ngth
                </datagrams-with-bad-hardware-address-length>

<datagrams-with-multicast-source-address>datagrams-with-multicast-source-address
                </datagrams-with-multicast-source-address>
    <datagrams-with-multicast-target-address>datagrams-with-multicast-target-address
                </datagrams-with-multicast-target-address>

<datagrams-with-my-own-hardware-address>datagrams-with-my-own-hardware-address
                </datagrams-with-my-own-hardware-address>

<datagrams-for-an-address-not-on-the-interface>datagrams-for-an-address-not-on-the-int
erface
                </datagrams-for-an-address-not-on-the-interface>
```

<datagrams-with-a-broadcast-source-address>*datagrams-with-a-broadcast-source-address*
</datagrams-with-a-broadcast-source-address>

<datagrams-with-source-address-duplicate-to-mine>*datagrams-with-source-address-duplicate-to-mine*
</datagrams-with-source-address-duplicate-to-mine>
<datagrams-which-were-not-for-me>*datagrams-which-were-not-for-me*
</datagrams-which-were-not-for-me>
<packets-discarded-waiting-for-resolution>*packets-discarded-waiting-for-resolution*
</packets-discarded-waiting-for-resolution>
<packets-sent-after-waiting-for-resolution>*packets-sent-after-waiting-for-resolution*
</packets-sent-after-waiting-for-resolution>
<arp-requests-sent>*arp-requests-sent*</arp-requests-sent>
<arp-replies-sent>*arp-replies-sent*</arp-replies-sent>
<requests-for-memory-denied>*requests-for-memory-denied*
</requests-for-memory-denied>
<requests-dropped-on-entry>*requests-dropped-on-entry*
</requests-dropped-on-entry>
<requests-dropped-during-retry>*requests-dropped-during-retry*
</requests-dropped-during-retry>

<requests-dropped-due-to-interface-deletion>*requests-dropped-due-to-interface-deletion*
</requests-dropped-due-to-interface-deletion>
<requests-on-unnumbered-interfaces>*requests-on-unnumbered-interfaces*
</requests-on-unnumbered-interfaces>
<new-requests-on-unnumbered-interfaces>*new-requests-on-unnumbered-interfaces*
</new-requests-on-unnumbered-interfaces>
<replies-from-unnumbered-interfaces>*replies-from-unnumbered-interfaces*
</replies-from-unnumbered-interfaces>

<requests-on-unnumbered-interface-with-non-subnetted-donor>*requests-on-unnumbered-interface-with-non-subnetted-donor*
</requests-on-unnumbered-interface-with-non-subnetted-donor>

<replies-from-unnumbered-interface-with-non-subnetted-donor>*replies-from-unnumbered-interface-with-non-subnetted-donor*
</replies-from-unnumbered-interface-with-non-subnetted-donor>
</arp>
</statistics>

Description No documentation is available yet.

Contents <arp-replies-received>—ARP replies received.

<arp-replies-sent>—ARP replies sent.

<arp-requests-received>—ARP requests received.

<arp-requests-sent>—ARP requests sent.

<datagrams-for-an-address-not-on-the-interface>—Datagrams for an address not on the interface.

<datagrams-for-non-ip-protocol>—Datagrams for non-IP protocol.

<datagrams-received>—Datagrams received.

<datagrams-which-were-not-for-me>—Datagrams which were not for me.

<datagrams-with-a-broadcast-source-address>—Datagrams with a broadcast source address.

<datagrams-with-bad-hardware-address-length>—Datagrams with bad hardware address length.

<datagrams-with-bad-protocol-address-length>—Datagrams with bad protocol address length.

<datagrams-with-bogus-interface>—Datagrams with bogus interface.

<datagrams-with-incorrect-length>—Datagrams with incorrect length.

<datagrams-with-multicast-source-address>—Datagrams with multicast source address.

<datagrams-with-multicast-target-address>—Datagrams with multicast source address.

<datagrams-with-my-own-hardware-address>—Datagrams with my own hardware address.

<datagrams-with-source-address-duplicate-to-mine>—Datagrams with source address duplicate to mine.

<datagrams-with-unsupported-opcode>—Datagrams with unsupported op code.

<new-requests-on-unnumbered-interfaces>—New requests on unnumbered interfaces.

<packets-discarded-waiting-for-resolution>—Packets discarded waiting for resolution.

<packets-sent-after-waiting-for-resolution>—Packets sent after waiting for resolution.

<proxy-requests-not-proxied>—Proxy requests not proxied.

<received-proxy-requests>—Received proxy requests.

<replies-from-unnumbered-interface-with-non-subnetted-donor>—Replies from unnumbered interface with non-subnetted donor.

<replies-from-unnumbered-interfaces>—Replies for from unnumbered interfaces.

<requests-dropped-due-to-interface-deletion>—Requests dropped due to interface deletion.

<requests-dropped-during-retry>—Requests dropped during retry.

<requests-dropped-on-entry>—Requests dropped on entry.

<requests-for-memory-denied>—Requests for memory denied.

<requests-on-unnumbered-interface-with-non-subnetted-donor>—Requests on unnumbered interface with non-subnetted donor.

<requests-on-unnumbered-interfaces>—Requests on unnumbered interfaces.

<resolution-request-received>—Resolution request received.

<restricted-proxy-requests>—Restricted proxy requests.

<restricted-proxy-requests-not-proxied>—Restricted proxy requests not proxied.

<unrestricted-proxy-requests>—Unrestricted proxy requests.

<bridge>

Usage

```
<statistics>
  <bridge>
    <heading>heading</heading>
    <packets-received>packets-received</packets-received>
    <packets-forwarded>packets-forwarded</packets-forwarded>
    <packets-failed-to-forward>packets-failed-to-forward
            </packets-failed-to-forward>
    <packets-dropped>packets-dropped</packets-dropped>
    <packets-with-vmember-lookup-failures>packets-with-vmember-lookup-failures
            </packets-with-vmember-lookup-failures>
    <packets-with-vlan-lookup-failures>packets-with-vlan-lookup-failures
            </packets-with-vlan-lookup-failures>
    <packets-with-stp-state-lookup-failures>packets-with-stp-state-lookup-failures
            </packets-with-stp-state-lookup-failures>

<packets-dropped-due-to-stp-blocked-or-listening>packets-dropped-due-to-stp-blocked-or-
listening
            </packets-dropped-due-to-stp-blocked-or-listening>
    <packets-dropped-due-to-stp-learning>packets-dropped-due-to-stp-learning
            </packets-dropped-due-to-stp-learning>
    <packets-with-src-mac-learning-failures>packets-with-src-mac-learning-failures
            </packets-with-src-mac-learning-failures>

<packets-with-input-control-processing-failures>packets-with-input-control-processing-fail
ures
            </packets-with-input-control-processing-failures>
    <packets-sent-successfully>packets-sent-successfully
            </packets-sent-successfully>
    <packets-with-send-failures>packets-with-send-failures
            </packets-with-send-failures>
    <packets-forwarded-to-l3-interface>packets-forwarded-to-l3-interface
            </packets-forwarded-to-l3-interface>
    <packets-with-l3-send-failures>packets-with-l3-send-failures
            </packets-with-l3-send-failures>
    <packets-discarded>packets-discarded</packets-discarded>
    <packets-with-l2-ifl-store-failures>packets-with-l2-ifl-store-failures
            </packets-with-l2-ifl-store-failures>
    <packets-with-ifl-mismatch-failures>packets-with-ifl-mismatch-failures
            </packets-with-ifl-mismatch-failures>
    <packets-with-packet-duplication-failures>packets-with-packet-duplication-failures
            </packets-with-packet-duplication-failures>
    <packets-with-tag-lookup-failures>packets-with-tag-lookup-failures
            </packets-with-tag-lookup-failures>
    <packets-with-no-route-for-dmac>packets-with-no-route-for-dmac
            </packets-with-no-route-for-dmac>
    <packets-with-no-route-table>packets-with-no-route-table
            </packets-with-no-route-table>
    <packets-with-no-nexthop>packets-with-no-nexthop</packets-with-no-nexthop>
    <packets-with-dead-nexthop>packets-with-dead-nexthop
            </packets-with-dead-nexthop>
    <packets-with-eof-reached-error>packets-with-eof-reached-error
            </packets-with-eof-reached-error>
```

```
        <macs-learned>macs-learned</macs-learned>
        <packets-sent-to-l3-interface>packets-sent-to-l3-interface
                </packets-sent-to-l3-interface>
        <packets-hit-hold-queue-while-learning>packets-hit-hold-queue-while-learning
                </packets-hit-hold-queue-while-learning>
        <mac-moves>mac-moves</mac-moves>
        <packets-with-no-route-for-smac>packets-with-no-route-for-smac
                </packets-with-no-route-for-smac>
        <packets-dropped-due-to-no-resolve-route>packets-dropped-due-to-no-resolve-route
                </packets-dropped-due-to-no-resolve-route>
        <packets-with-l3-ifd-lookup-failures>packets-with-l3-ifd-lookup-failures
                </packets-with-l3-ifd-lookup-failures>
        <packets-with-l3-ifl-lookup-failures>packets-with-l3-ifl-lookup-failures
                </packets-with-l3-ifl-lookup-failures>
        <packets-with-l3-invalid-rnh>packets-with-l3-invalid-rnh
                </packets-with-l3-invalid-rnh>

<packets-with-no-route-for-smac-in-clone-learning>packets-with-no-route-for-smac-in-clon
e-learning
                </packets-with-no-route-for-smac-in-clone-learning>

<packets-with-no-nexthop-in-clone-learning>packets-with-no-nexthop-in-clone-learning
                </packets-with-no-nexthop-in-clone-learning>

<packets-with-dead-nexthop-in-clone-learning>packets-with-dead-nexthop-in-clone-learnin
g
                </packets-with-dead-nexthop-in-clone-learning>

<packets-dropped-due-to-no-resolve-nh-in-clone-learning>packets-dropped-due-to-no-reso
lve-nh-in-clone-learning
                </packets-dropped-due-to-no-resolve-nh-in-clone-learning>
        <packets-dropped-due-to-interface-down>packets-dropped-due-to-interface-down
                </packets-dropped-due-to-interface-down>
        <packets-with-dev-output-failures>packets-with-dev-output-failures
                </packets-with-dev-output-failures>
        <blocked-ifl-discards>blocked-ifl-discards</blocked-ifl-discards>
        <packets-with-tag-insertion-failures>packets-with-tag-insertion-failures
                </packets-with-tag-insertion-failures>
        <packets-with-tag-removal-failures>packets-with-tag-removal-failures
                </packets-with-tag-removal-failures>
        <packets-flooded>packets-flooded</packets-flooded>
        <flood-failures>flood-failures</flood-failures>
        <packets-with-mpull-failures>packets-with-mpull-failures
                </packets-with-mpull-failures>
        <packets-with-ifl-lookup-failures>packets-with-ifl-lookup-failures
                </packets-with-ifl-lookup-failures>
        <packets-with-size-smaller-than-minimum>packets-with-size-smaller-than-minimum
                </packets-with-size-smaller-than-minimum>
        <packets-with-double-tags>packets-with-double-tags</packets-with-double-tags>
        <packets-with-no-ifl>packets-with-no-ifl</packets-with-no-ifl>
        <packets-with-no-family>packets-with-no-family</packets-with-no-family>
      </bridge>
</statistics>
```

Description No documentation is available yet.

Contents <blocked-ifl-discards>—Blocked ifl discards.

<flood-failures>—Flood failures.

<heading>—Header.

<mac-moves>—MAC moves.

<macs-learned>—MACs learned.

<packets-discarded>—Packets discarded.

<packets-dropped>—Packets dropped (src and int don't match).

<packets-dropped-due-to-interface-down>—Packets dropped due to interface down.

<packets-dropped-due-to-no-resolve-nh-in-clone-learning>—Packets dropped due to no resolve nh in clone learning.

<packets-dropped-due-to-no-resolve-route>—Packets dropped due to no resolve route.

<packets-dropped-due-to-stp-blocked-or-listening>—Packets dropped due to STP blocked/listening.

<packets-dropped-due-to-stp-learning>—Packets dropped due to STP learning.

<packets-failed-to-forward>—Packets failed to forward.

<packets-flooded>—Packets flooded.

<packets-forwarded>—Packets forwarded.

<packets-forwarded-to-l3-interface>—Packets forwarded to l3 interface.

<packets-hit-hold-queue-while-learning>—Packets hit hold queue while learning.

<packets-received>—Packets received.

<packets-sent-successfully>—Packets sent successfully.

<packets-sent-to-l3-interface>—Packets sent to l3 interface.

<packets-with-dead-nexthop>—Packets with dead nexthop.

<packets-with-dead-nexthop-in-clone-learning>—Packets with dead nexthop in clone learning.

<packets-with-dev-output-failures>—Packets with dev output failures.

<packets-with-double-tags>—Packets with double tags.

<packets-with-eof-reached-error>—Packets with eof reached error.

<packets-with-ifl-lookup-failures>—Packets with ifl lookup failures.

<packets-with-ifl-mismatch-failures>—Packets with ifl mismatch failures.

<packets-with-input-control-processing-failures>—Packets with input control processing failures.

<packets-with-l2-ifl-store-failures>—Packets with l2ifl store failures.

<packets-with-l3-ifd-lookup-failures>—Packets with l3 ifd lookup failures.

<packets-with-l3-ifl-lookup-failures>—Packets with l3 ifl lookup failures.

<packets-with-l3-invalid-rnh>—Packets with l3 invalid RNH.

<packets-with-l3-send-failures>—Packets with l3 send failures.

<packets-with-mpull-failures>—Packets with mpull failures.

<packets-with-no-family>—Packets with no family.

<packets-with-no-ifl>—No documentation is available yet.

<packets-with-no-nexthop>—Packets with no nexthop.

<packets-with-no-nexthop-in-clone-learning>—Packets with no nexhop in clone learning.

<packets-with-no-route-for-dmac>—Packets with no route for DMAC.

<packets-with-no-route-for-smac>—Packets with no route for SMAC.

<packets-with-no-route-for-smac-in-clone-learning>—Packets with no route for SMAC in clone learning.

<packets-with-no-route-table>—Packets with no route table.

<packets-with-packet-duplication-failures>—Packets with packet duplication failures.

<packets-with-send-failures>—Packets with send failures.

<packets-with-size-smaller-than-minimum>—Packets with size smaller than minimum.

<packets-with-src-mac-learning-failures>—Packets with src MAC learning failures.

<packets-with-stp-state-lookup-failures>—Packets with STP state lookup failures.

<packets-with-tag-insertion-failures>—Packets with tag insertion failures.

<packets-with-tag-lookup-failures>—Packets with tag lookup failures.

<packets-with-tag-removal-failures>—Packets with tag removal failures.

<packets-with-vlan-lookup-failures>—Packets with VLAN lookup failures.

<packets-with-vmember-lookup-failures>—Packets with vmember lookup failures.

<clnl>

Usage

```
<statistics>
  <clnl>
    <total-packets-received>total-packets-received</total-packets-received>
    <packets-delivered>packets-delivered</packets-delivered>
    <too-small-packets>too-small-packets</too-small-packets>
    <packets-with-bad-header-length>packets-with-bad-header-length
            </packets-with-bad-header-length>
    <packets-with-bad-checksum>packets-with-bad-checksum
            </packets-with-bad-checksum>
    <bad-version-packets>bad-version-packets</bad-version-packets>

<unknown-or-unsupported-protocol-packets>unknown-or-unsupported-protocol-packets
            </unknown-or-unsupported-protocol-packets>
    <packets-with-bogus-sdl-size>packets-with-bogus-sdl-size
            </packets-with-bogus-sdl-size>
    <no-free-memory-in-socket-buffer>no-free-memory-in-socket-buffer
            </no-free-memory-in-socket-buffer>
    <send-packets-discarded>send-packets-discarded</send-packets-discarded>
    <sbappend-failure>sbappend-failure</sbappend-failure>
    <mcopy-failure>mcopy-failure</mcopy-failure>
    <address-fields-were-not-reasonable>address-fields-were-not-reasonable
            </address-fields-were-not-reasonable>
    <segment-information-forgotten>segment-information-forgotten
            </segment-information-forgotten>
    <forwarded-packets>forwarded-packets</forwarded-packets>
    <total-packets-sent>total-packets-sent</total-packets-sent>
    <output-packets-discarded>output-packets-discarded</output-packets-discarded>
    <non-forwarded-packets>non-forwarded-packets</non-forwarded-packets>
    <packets-fragmented>packets-fragmented</packets-fragmented>
    <fragments-sent>fragments-sent</fragments-sent>
    <fragments-discarded>fragments-discarded</fragments-discarded>
    <fragments-timed-out>fragments-timed-out</fragments-timed-out>
    <fragmentation-prohibited>fragmentation-prohibited</fragmentation-prohibited>
    <packets-reconstructed>packets-reconstructed</packets-reconstructed>
    <packets-destined-to-dead-nexthop>packets-destined-to-dead-nexthop
            </packets-destined-to-dead-nexthop>
    <packets-discarded-due-to-no-route>packets-discarded-due-to-no-route
            </packets-discarded-due-to-no-route>
    <error-pdu-rate-drops>error-pdu-rate-drops</error-pdu-rate-drops>
    <er-pdu-generation-failure>er-pdu-generation-failure
            </er-pdu-generation-failure>
  </clnl>
</statistics>
```

Description No documentation is available yet.

Contents <address-fields-were-not-reasonable>—Address fields were not reasonable.

<bad-version-packets>—Bad version packets.

<er-pdu-generation-failure>—ER pdu generation failure.

<error-pdu-rate-drops>—Error pdu rate drops.

<forwarded-packets>—Forwarded packets.

<fragmentation-prohibited>—Fragmentation prohibited.

<fragments-discarded>—Fragments discarded.

<fragments-sent>—Fragments sent.

<fragments-timed-out>—Fragments timed out.

<mcopy-failure>—Mcopy failure.

<no-free-memory-in-socket-buffer>—No free memory in socket buffer.

<non-forwarded-packets>—Non-forwarded packets.

<output-packets-discarded>—Output packets discarded.

<packets-delivered>—Packets delivered.

<packets-destined-to-dead-nexthop>—Packets destined to dead nexthop.

<packets-discarded-due-to-no-route>—Packets discarded due to no route.

<packets-fragmented>—Packets fragmented.

<packets-reconstructed>—Packets reconstructed.

<packets-with-bad-checksum>—Packets with bad checksum.

<packets-with-bad-header-length>—Packets with bad header length.

<packets-with-bogus-sdl-size>—Packets with bogus sdl size.

<sbappend-failure>—Sbappend failure.

<segment-information-forgotten>—Segment information forgotten.

<send-packets-discarded>—Send packets discarded.

<too-small-packets>—Too small packets.

<total-packets-received>—Total packets received.

<total-packets-sent>—Total packets sent.

<unknown-or-unsupported-protocol-packets>—Unknown or unsupported protocol packets.

<esis>

Usage

```
<statistics>
  <esis>
    <total-packets-received>total-packets-received</total-packets-received>
    <total-packets-consumed-by-protocol>total-packets-consumed-by-protocol
            </total-packets-consumed-by-protocol>
    <pdus-received-with-bad-checksum>pdus-received-with-bad-checksum
            </pdus-received-with-bad-checksum>
    <pdus-received-with-bad-version-number>pdus-received-with-bad-version-number
            </pdus-received-with-bad-version-number>
    <pdus-received-with-bad-type-field>pdus-received-with-bad-type-field
            </pdus-received-with-bad-type-field>
    <short-pdus-received>short-pdus-received</short-pdus-received>
    <pdus-with-bogus-sdl-size>pdus-with-bogus-sdl-size</pdus-with-bogus-sdl-size>
    <pdus-with-bad-header-length>pdus-with-bad-header-length
            </pdus-with-bad-header-length>

<pdus-with-unknown-or-unsupport-protocol>pdus-with-unknown-or-unsupport-protocol
            </pdus-with-unknown-or-unsupport-protocol>
    <no-free-memory-in-socket-buffer>no-free-memory-in-socket-buffer
            </no-free-memory-in-socket-buffer>
    <send-packets-discarded>send-packets-discarded</send-packets-discarded>
    <sbappend-failure>sbappend-failure</sbappend-failure>
    <mcopy-failure>mcopy-failure</mcopy-failure>
    <iso-family-not-configured>iso-family-not-configured
            </iso-family-not-configured>
  </esis>
</statistics>
```

Description No documentation is available yet.

Contents

<iso-family-not-configured>—ISO family not configured.

<mcopy-failure>—Mcopy failure.

<no-free-memory-in-socket-buffer>—No free memory in socket buffer.

<pdus-received-with-bad-checksum>—PDUs received with bad checksum.

<pdus-received-with-bad-type-field>—PDUs received with bad type field.

<pdus-received-with-bad-version-number>—PDUs received with bad version number.

<pdus-with-bad-header-length>—Pdus with bad header length.

<pdus-with-bogus-sdl-size>—Pdus withbogus sdl size.

<pdus-with-unknown-or-unsupport-protocol>—Pdus with unknown or unsupport protocol.

<sbappend-failure>—Sbappend failure.

<send-packets-discarded>—Send packets discarded.

<short-pdus-received>—Short pdus received.

<total-packets-consumed-by-protocol>—Total packets consumed by protocol.

<total-packets-received>—Total packets received.

<icmp>

Usage

```
<statistics>
  <icmp>
    <drops-due-to-rate-limit>drops-due-to-rate-limit</drops-due-to-rate-limit>
    <calls-to-icmp-error>calls-to-icmp-error</calls-to-icmp-error>

<errors-not-generated-because-old-message-was-icmp>errors-not-generated-because-old
-message-was-icmp
                </errors-not-generated-because-old-message-was-icmp>
    <histogram>histogram</histogram>
    <echo-reply>echo-reply</echo-reply>
    <destination-unreachable>destination-unreachable</destination-unreachable>
    <source-quench>source-quench</source-quench>
    <routing-redirect>routing-redirect</routing-redirect>
    <echo>echo</echo>
    <router-advertisement>router-advertisement</router-advertisement>
    <router-solicitation>router-solicitation</router-solicitation>
    <time-exceeded>time-exceeded</time-exceeded>
    <parameter-problem>parameter-problem</parameter-problem>
    <time-stamp>time-stamp</time-stamp>
    <time-stamp-reply>time-stamp-reply</time-stamp-reply>
    <information-request>information-request</information-request>
    <information-request-reply>information-request-reply
                </information-request-reply>
    <address-mask-request>address-mask-request</address-mask-request>
    <address-mask-reply>address-mask-reply</address-mask-reply>
    <messages-with-bad-code-fields>messages-with-bad-code-fields
                </messages-with-bad-code-fields>
    <messages-less-than-the-minimum-length>messages-less-than-the-minimum-length
                </messages-less-than-the-minimum-length>
    <messages-with-bad-checksum>messages-with-bad-checksum
                </messages-with-bad-checksum>
    <messages-with-bad-source-address>messages-with-bad-source-address
                </messages-with-bad-source-address>

<messages-with-bad-length>messages-with-bad-length</messages-with-bad-length>

<echo-drops-with-broadcast-or-multicast-destinaton-address>echo-drops-with-broadcast-
or-multicast-destinaton-address
                </echo-drops-with-broadcast-or-multicast-destinaton-address>

<timestamp-drops-with-broadcast-or-multicast-destination-address>timestamp-drops-wit
h-broadcast-or-multicast-destination-address

</timestamp-drops-with-broadcast-or-multicast-destination-address>
    <message-responses-generated>message-responses-generated
                </message-responses-generated>
  </icmp>
</statistics>
```

Description No documentation is available yet.

Contents <address-mask-reply>—Address mask reply.

<address-mask-request>—Address mask request.

<calls-to-icmp-error>—Calls to icmp_error.

<destination-unreachable>—Destination unreachable.

<drops-due-to-rate-limit>—Drops due to rate limit.

<echo>—Echo.

<echo-drops-with-broadcast-or-multicast-destinaton-address>—Echo drops with broadcast or multicast destinaton address.

<echo-reply>—Echo reply.

<errors-not-generated-because-old-message-was-icmp>—Errors not generated because old message was icmp.

<histogram>—Header.

<information-request>—Information request.

<information-request-reply>—Information request reply.

<message-responses-generated>—Message responses generated.

<messages-less-than-the-minimum-length>—Messages less than the minimum length.

<messages-with-bad-checksum>—Messages with bad checksum.

<messages-with-bad-code-fields>—Messages with bad code fields.

<messages-with-bad-length>—Messages with bad length.

<messages-with-bad-source-address>—Messages with bad source address.

<parameter-problem>—Parameter problem.

<router-advertisement>—Router advertisement.

<router-solicitation>—Router solicitation.

<routing-redirect>—Routing redirect.

<source-quench>—Source-quench.

<time-exceeded>—Time exceeded.

<time-stamp>—Time stamp.

<time-stamp-reply>—Time stamp reply.

<timestamp-drops-with-broadcast-or-multicast-destination-address>—Timestamp drops with broadcast or multicast destination address.

<icmp6>

Usage

```
<statistics>
  <icmp6>
    <calls-to-icmp-error>calls-to-icmp-error</calls-to-icmp-error>

<errors-not-generated-because-old-message-was-icmp-error>errors-not-generated-because-old-message-was-icmp-error
                </errors-not-generated-because-old-message-was-icmp-error>

<errors-not-generated-because-rate-limitation>errors-not-generated-because-rate-limitation
                </errors-not-generated-because-rate-limitation>
    <histogram>histogram</histogram>
    <unreach>unreach</unreach>
    <packet-too-big>packet-too-big</packet-too-big>
    <time-exceeded>time-exceeded</time-exceeded>
    <parameter-problem>parameter-problem</parameter-problem>
    <echo>echo</echo>
    <echo-reply>echo-reply</echo-reply>
    <multicast-listener-query>multicast-listener-query</multicast-listener-query>
    <multicast-listener-report>multicast-listener-report
                </multicast-listener-report>
    <multicast-listener-done>multicast-listener-done</multicast-listener-done>
    <router-solicitation>router-solicitation</router-solicitation>
    <router-advertisement>router-advertisement</router-advertisement>
    <neighbor-solicitation>neighbor-solicitation</neighbor-solicitation>
    <neighbor-advertisement>neighbor-advertisement</neighbor-advertisement>
    <redirect>redirect</redirect>
    <router-renumbering>router-renumbering</router-renumbering>
    <node-information-request>node-information-request</node-information-request>
    <node-information-reply>node-information-reply</node-information-reply>
    <messages-with-bad-code-fields>messages-with-bad-code-fields
                </messages-with-bad-code-fields>
    <messages-less-than-minimum-length>messages-less-than-minimum-length
                </messages-less-than-minimum-length>
    <bad-checksums>bad-checksums</bad-checksums>

<messages-with-bad-length>messages-with-bad-length</messages-with-bad-length>

<histogram-of-error-messages-to-be-generated>histogram-of-error-messages-to-be-generated
                </histogram-of-error-messages-to-be-generated>
    <no-route>no-route</no-route>
    <administratively-prohibited>administratively-prohibited
                </administratively-prohibited>
    <beyond-scope>beyond-scope</beyond-scope>
    <address-unreachable>address-unreachable</address-unreachable>
    <port-unreachable>port-unreachable</port-unreachable>
    <time-exceed-transit>time-exceed-transit</time-exceed-transit>
    <time-exceed-reassembly>time-exceed-reassembly</time-exceed-reassembly>
    <erroneous-header-field>erroneous-header-field</erroneous-header-field>
    <unrecognized-next-header>unrecognized-next-header</unrecognized-next-header>
    <unrecognized-option>unrecognized-option</unrecognized-option>
```

```
        <unknown>unknown</unknown>
        <message-responses-generated>message-responses-generated
                    </message-responses-generated>
        <messages-with-too-many-nd-options>messages-with-too-many-nd-options
                    </messages-with-too-many-nd-options>
      </icmp6>
    </statistics>
```

Description No documentation is available yet.

Contents <address-unreachable>—Address unreachable.

<administratively-prohibited>—Administratively prohibited.

<bad-checksums>—Bad checksums.

<beyond-scope>—Beyond scope.

<calls-to-icmp-error>—Calls to icmp_error.

<echo>—Echo.

<echo-reply>—Echo reply.

<erroneous-header-field>—Erroneous header field.

<errors-not-generated-because-old-message-was-icmp-error>—Errors not generated because old message was icmp error.

<errors-not-generated-because-rate-limitation>—Errors not generated because rate limitation.

<histogram>—Header.

<histogram-of-error-messages-to-be-generated>—Header.

<message-responses-generated>—Message responses generated.

<messages-less-than-minimum-length>—Messages < minimum length.

<messages-with-bad-code-fields>—Messages with bad code fields.

<messages-with-bad-length>—Messages with bad length.

<messages-with-too-many-nd-options>—Messages with too many ND options.

<multicast-listener-done>—

<multicast-listener-query>—Multicast listener query.

<multicast-listener-report>—Multicast listener report.

<neighbor-advertisement>—Neighbor advertisement.

<neighbor-solicitation>—Neighbor solicitation.

<no-route>—No route.

<node-information-reply>—Node information reply.

<node-information-request>—Node information request.

<packet-too-big>—Packet too big.

<parameter-problem>—Parameter problem.

<port-unreachable>—Port unreachable.

<redirect>—Redirect.

<router-advertisement>—Router advertisement.

<router-renumbering>—Router renumbering.

<router-solicitation>—Router solicitation.

<time-exceed-reassembly>—Time exceed reassembly.

<time-exceed-transit>—Time exceed transit.

<time-exceeded>—Time exceeded.

<unknown>—Unknown.

<unreach>—Unreach in syncache entries added.

<unrecognized-next-header>—Unrecognized next header.

<unrecognized-option>—Unrecognized option.

<igmp>

Usage

```
<statistics>
  <igmp>
    <messages-received>messages-received</messages-received>
    <messages-received-with-too-few-bytes>messages-received-with-too-few-bytes
                </messages-received-with-too-few-bytes>
    <messages-received-with-bad-checksum>messages-received-with-bad-checksum
                </messages-received-with-bad-checksum>
    <membership-queries-received>membership-queries-received
                </membership-queries-received>

<membership-queries-received-with-invalid-fields>membership-queries-received-with-invalid-fields
                </membership-queries-received-with-invalid-fields>
    <membership-reports-received>membership-reports-received
                </membership-reports-received>

<membership-reports-received-with-invalid-fields>membership-reports-received-with-invalid-fields
                </membership-reports-received-with-invalid-fields>

<membership-reports-received-for-groups-to-which-we-belong>membership-reports-received-for-groups-to-which-we-belong
                </membership-reports-received-for-groups-to-which-we-belong>
    <membership-reports-sent>membership-reports-sent</membership-reports-sent>
  </igmp>
</statistics>
```

Description No documentation is available yet.

Contents

<membership-queries-received>—Membership queries received.

<membership-queries-received-with-invalid-fields>—Membership queries received with invalid fields.

<membership-reports-received>—Membership reports received.

<membership-reports-received-for-groups-to-which-we-belong>—Membership reports received for groups to which we belong.

<membership-reports-received-with-invalid-fields>—Membership reports received with invalid fields.

<membership-reports-sent>—Membership reports sent.

<messages-received>—Messages received.

<messages-received-with-bad-checksum>—Messages received with bad checksum.

<messages-received-with-too-few-bytes>—Messages received with too few bytes.

<ip>

Usage

```
<statistics>
  <ip>
    <packets-received>packets-received</packets-received>
    <bad-header-checksums>bad-header-checksums</bad-header-checksums>
    <packets-with-size-smaller-than-minimum>packets-with-size-smaller-than-minimum
            </packets-with-size-smaller-than-minimum>

<packets-with-data-size-less-than-datalength>packets-with-data-size-less-than-datalength
            </packets-with-data-size-less-than-datalength>

<packets-with-header-length-less-than-data-size>packets-with-header-length-less-than-da
ta-size
            </packets-with-header-length-less-than-data-size>

<packets-with-data-length-less-than-headerlength>packets-with-data-length-less-than-he
aderlength
            </packets-with-data-length-less-than-headerlength>
    <packets-with-incorrect-version-number>packets-with-incorrect-version-number
            </packets-with-incorrect-version-number>
    <packets-destined-to-dead-next-hop>packets-destined-to-dead-next-hop
            </packets-destined-to-dead-next-hop>
    <fragments-received>fragments-received</fragments-received>

<fragments-dropped-due-to-outofspace-or-dup>fragments-dropped-due-to-outofspace-or-
dup
            </fragments-dropped-due-to-outofspace-or-dup>

<fragments-dropped-due-to-queueoverflow>fragments-dropped-due-to-queueoverflow
            </fragments-dropped-due-to-queueoverflow>
    <fragments-dropped-after-timeout>fragments-dropped-after-timeout
            </fragments-dropped-after-timeout>
    <fragments-dropped-due-to-over-limit>fragments-dropped-due-to-over-limit
            </fragments-dropped-due-to-over-limit>
    <packets-reassembled-ok>packets-reassembled-ok</packets-reassembled-ok>
    <packets-for-this-host>packets-for-this-host</packets-for-this-host>

<packets-for-unknown-or-unsupported-protocol>packets-for-unknown-or-unsupported-pro
tocol
            </packets-for-unknown-or-unsupported-protocol>
    <packets-forwarded>packets-forwarded</packets-forwarded>
    <packets-not-forwardable>packets-not-forwardable</packets-not-forwardable>
    <redirects-sent>redirects-sent</redirects-sent>
    <packets-sent-from-this-host>packets-sent-from-this-host
            </packets-sent-from-this-host>
    <packets-sent-with-fabricated-ip-header>packets-sent-with-fabricated-ip-header
            </packets-sent-with-fabricated-ip-header>
    <output-packets-dropped-due-to-no-bufs>output-packets-dropped-due-to-no-bufs
            </output-packets-dropped-due-to-no-bufs>

<output-packets-discarded-due-to-no-route>output-packets-discarded-due-to-no-route
            </output-packets-discarded-due-to-no-route>
    <output-datagrams-fragmented>output-datagrams-fragmented
```

```
                    </output-datagrams-fragmented>
    <fragments-created>fragments-created</fragments-created>
    <datagrams-that-can-not-be-fragmented>datagrams-that-can-not-be-fragmented
                    </datagrams-that-can-not-be-fragmented>
    <packets-with-bad-options>packets-with-bad-options</packets-with-bad-options>

<packets-with-options-handled-without-error>packets-with-options-handled-without-error
                    </packets-with-options-handled-without-error>
    <strict-source-and-record-route-options>strict-source-and-record-route-options
                    </strict-source-and-record-route-options>
    <loose-source-and-record-route-options>loose-source-and-record-route-options
                    </loose-source-and-record-route-options>
    <record-route-options>record-route-options</record-route-options>
    <timestamp-options>timestamp-options</timestamp-options>
    <timestamp-and-address-options>timestamp-and-address-options
                    </timestamp-and-address-options>

<timestamp-and-prespecified-address-options>timestamp-and-prespecified-address-opti
ons
                    </timestamp-and-prespecified-address-options>
    <option-packets-dropped-due-to-rate-limit>option-packets-dropped-due-to-rate-limit
                    </option-packets-dropped-due-to-rate-limit>
    <router-alert-options>router-alert-options</router-alert-options>
    <multicast-packets-dropped>multicast-packets-dropped
                    </multicast-packets-dropped>
    <packets-dropped>packets-dropped</packets-dropped>

<transit-re-packets-dropped-on-mgmt-interface>transit-re-packets-dropped-on-mgmt-inter
face
                    </transit-re-packets-dropped-on-mgmt-interface>

<packets-used-first-nexthop-in-ecmp-unilist>packets-used-first-nexthop-in-ecmp-unilist
                    </packets-used-first-nexthop-in-ecmp-unilist>
    <incoming-ttpoip-packets-received>incoming-ttpoip-packets-received
                    </incoming-ttpoip-packets-received>
    <incoming-ttpoip-packets-dropped>incoming-ttpoip-packets-dropped
                    </incoming-ttpoip-packets-dropped>
    <outgoing-ttpoip-packets-sent>outgoing-ttpoip-packets-sent
                    </outgoing-ttpoip-packets-sent>
    <outgoing-ttpoip-packets-dropped>outgoing-ttpoip-packets-dropped
                    </outgoing-ttpoip-packets-dropped>
  </ip>
</statistics>
```

Description No documentation is available yet.

Contents <bad-header-checksums>—Bad header checksums.

<datagrams-that-can-not-be-fragmented>—Datagrams that can't be fragmented.

<fragments-created>—Fragments created.

<fragments-dropped-after-timeout>—Fragments dropped after timeout.

<fragments-dropped-due-to-outofspace-or-dup>—Fragments dropped due to out of

space/dup.

<fragments-dropped-due-to-over-limit>—Fragments dropped due to over limit.

<fragments-dropped-due-to-queueoverflow>—Fragments dropped due to queue overflow.

<fragments-received>—Fragments received.

<incoming-ttpoip-packets-dropped>—Incoming TTPoIP packets dropped.

<incoming-ttpoip-packets-received>—Incoming TTPoIP packets received.

<loose-source-and-record-route-options>—Loose source and record route options.

<multicast-packets-dropped>—Multicast packets dropped (no iflist).

<option-packets-dropped-due-to-rate-limit>—Option packets dropped due to rate limit.

<outgoing-ttpoip-packets-dropped>—Outgoing TTPoIP packets dropped.

<outgoing-ttpoip-packets-sent>—Outgoing TTPoIP packets sent.

<output-datagrams-fragmented>—Output datagrams fragmented.

<output-packets-discarded-due-to-no-route>—Output packets discarded due to no route.

<output-packets-dropped-due-to-no-bufs>—Output packets dropped due to no bufs.

<packets-destined-to-dead-next-hop>—Packets destined to dead nexthop.

<packets-dropped>—Packets dropped (src and int don't match).

<packets-for-this-host>—Packets-for-this-host.

<packets-for-unknown-or-unsupported-protocol>—Packets for unknown/unsupported protocol.

<packets-forwarded>—Packets forwarded.

<packets-not-forwardable>—Packets not forwardable.

<packets-reassembled-ok>—Packets reassembled ok.

<packets-received>—Packets received.

<packets-sent-from-this-host>—Packets sent from this host.

<packets-sent-with-fabricated-ip-header>—Packets sent with fabricated ip header.

<packets-used-first-nexthop-in-ecmp-unilist>—Packets used first nexthop in ecmp unilist.

<packets-with-bad-options>—Packets with bad options.

<packets-with-data-length-less-than-headerlength>—Packets with data length < header length.

<packets-with-data-size-less-than-datalength>—Packets with data size < data length.

<packets-with-header-length-less-than-data-size>—Packets with header length < data size.

<packets-with-incorrect-version-number>—Packets with incorrect version number.

<packets-with-options-handled-without-error>—Packets with options handled without error.

<packets-with-size-smaller-than-minimum>—Packets with size smaller than minimum.

<record-route-options>—Record route options.

<redirects-sent>—Redirects sent.

<router-alert-options>—Router alert options.

<strict-source-and-record-route-options>—Strict source and record route options.

<timestamp-and-address-options>—Timestamp and address options.

<timestamp-and-prespecified-address-options>—Timestamp and prespecified address options.

<timestamp-options>—Timestamp options.

<transit-re-packets-dropped-on-mgmt-interface>—Transit RE packets dropped on mgmt interface.

<ip6>

Usage

```
<statistics>
  <ip6>
    <total-packets-received>total-packets-received</total-packets-received>
    <packets-with-size-smaller-than-minimum>packets-with-size-smaller-than-minimum
            </packets-with-size-smaller-than-minimum>

<packets-with-datasize-less-than-data-length>packets-with-datasize-less-than-data-length
            </packets-with-datasize-less-than-data-length>
    <packets-with-bad-options>packets-with-bad-options</packets-with-bad-options>
    <packets-with-incorrect-version-number>packets-with-incorrect-version-number
            </packets-with-incorrect-version-number>
    <fragments-received>fragments-received</fragments-received>

<duplicate-or-out-of-space-fragments-dropped>duplicate-or-out-of-space-fragments-dropped
            </duplicate-or-out-of-space-fragments-dropped>
    <fragments-dropped-after-timeout>fragments-dropped-after-timeout
            </fragments-dropped-after-timeout>
    <fragments-that-exceeded-limit>fragments-that-exceeded-limit
            </fragments-that-exceeded-limit>
    <packets-reassembled-ok>packets-reassembled-ok</packets-reassembled-ok>
    <packets-for-this-host>packets-for-this-host</packets-for-this-host>
    <packets-forwarded>packets-forwarded</packets-forwarded>
    <packets-not-forwardable>packets-not-forwardable</packets-not-forwardable>
    <redirects-sent>redirects-sent</redirects-sent>
    <packets-sent-from-this-host>packets-sent-from-this-host
            </packets-sent-from-this-host>
    <packets-sent-with-fabricated-ip-header>packets-sent-with-fabricated-ip-header
            </packets-sent-with-fabricated-ip-header>
    <output-packets-dropped-due-to-no-bufs>output-packets-dropped-due-to-no-bufs
            </output-packets-dropped-due-to-no-bufs>

<output-packets-discarded-due-to-no-route>output-packets-discarded-due-to-no-route
            </output-packets-discarded-due-to-no-route>
    <output-datagrams-fragmented>output-datagrams-fragmented
            </output-datagrams-fragmented>
    <fragments-created>fragments-created</fragments-created>
    <datagrams-that-can-not-be-fragmented>datagrams-that-can-not-be-fragmented
            </datagrams-that-can-not-be-fragmented>
    <packets-that-violated-scope-rules>packets-that-violated-scope-rules
            </packets-that-violated-scope-rules>
    <multicast-packets-which-we-do-not-join>multicast-packets-which-we-do-not-join
            </multicast-packets-which-we-do-not-join>
    <histogram>histogram</histogram>
    <ip6nh-hop-by-hop>ip6nh-hop-by-hop</ip6nh-hop-by-hop>
    <ip6nh-icmp>ip6nh-icmp</ip6nh-icmp>
    <ip6nh-igmp>ip6nh-igmp</ip6nh-igmp>
    <ip6nh-ip>ip6nh-ip</ip6nh-ip>
    <ip6nh-tcp>ip6nh-tcp</ip6nh-tcp>
    <ip6nh-udp>ip6nh-udp</ip6nh-udp>
    <ip6nh-idp>ip6nh-idp</ip6nh-idp>
    <ip6nh-tp>ip6nh-tp</ip6nh-tp>
```

```
        <ip6nh-ip6>ip6nh-ip6</ip6nh-ip6>
        <ip6nh-routing>ip6nh-routing</ip6nh-routing>
        <ip6nh-fragment>ip6nh-fragment</ip6nh-fragment>
        <ip6nh-esp>ip6nh-esp</ip6nh-esp>
        <ip6nh-ah>ip6nh-ah</ip6nh-ah>
        <ip6nh-icmp6>ip6nh-icmp6</ip6nh-icmp6>
        <ip6nh-no-next-header>ip6nh-no-next-header</ip6nh-no-next-header>
        <ip6nh-destination-option>ip6nh-destination-option</ip6nh-destination-option>
        <ip6nh-isoip>ip6nh-isoip</ip6nh-isoip>
        <ip6nh-ospf>ip6nh-ospf</ip6nh-ospf>
        <ip6nh-ethernet>ip6nh-ethernet</ip6nh-ethernet>
        <ip6nh-pim>ip6nh-pim</ip6nh-pim>
        <mbuf-statistics>mbuf-statistics</mbuf-statistics>
        <node-locals>node-locals</node-locals>
        <link-locals>link-locals</link-locals>
        <site-locals>site-locals</site-locals>
        <globals>globals</globals>
        <address-scope>address-scope</address-scope>
        <hex-value>hex-value</hex-value>
        <header-for-source-address-selection>header-for-source-address-selection
                </header-for-source-address-selection>

    <packets-whose-headers-are-not-continuous>packets-whose-headers-are-not-continuous
                </packets-whose-headers-are-not-continuous>
        <tunneling-packets-that-can-not-find-gif>tunneling-packets-that-can-not-find-gif
                </tunneling-packets-that-can-not-find-gif>

    <packets-discarded-due-to-too-may-headers>packets-discarded-due-to-too-may-headers
                </packets-discarded-due-to-too-may-headers>
        <failures-of-source-address-selection>failures-of-source-address-selection
                </failures-of-source-address-selection>
        <forward-cache-hit>forward-cache-hit</forward-cache-hit>
        <forward-cache-miss>forward-cache-miss</forward-cache-miss>
        <packets-destined-to-dead-next-hop>packets-destined-to-dead-next-hop
                </packets-destined-to-dead-next-hop>
        <option-packets-dropped-due-to-rate-limit>option-packets-dropped-due-to-rate-limit
                </option-packets-dropped-due-to-rate-limit>
        <packets-dropped>packets-dropped</packets-dropped>
        <packets-dropped-due-to-bad-protocol>packets-dropped-due-to-bad-protocol
                </packets-dropped-due-to-bad-protocol>

    <transit-re-packet-dropped-on-mgmt-interface>transit-re-packet-dropped-on-mgmt-interfa
    ce
                </transit-re-packet-dropped-on-mgmt-interface>
        <packet-used-first-nexthop-in-ecmp-unilist>packet-used-first-nexthop-in-ecmp-unilist
                </packet-used-first-nexthop-in-ecmp-unilist>
      </ip6>
    </statistics>
```

Description No documentation is available yet.

Contents <address-scope>—Address scope.

<datagrams-that-can-not-be-fragmented>—Datagrams that can't be fragmented.

<duplicate-or-out-of-space-fragments-dropped>—Fragments dropped (dup or out of space).

<failures-of-source-address-selection>—Failures of source address selection.

<forward-cache-hit>—Forward cache hit.

<forward-cache-miss>—Forward cache miss.

<fragments-created>—Fragments created.

<fragments-dropped-after-timeout>—Fragments dropped after timeout.

<fragments-received>—Fragments received.

<fragments-that-exceeded-limit>—Fragments that exceeded limit.

<globals>—Globals as source address.

<header-for-source-address-selection>—Header.

<hex-value>—Hexa decimal value.

<histogram>—Header.

<ip6nh-ah>—AH.

<ip6nh-destination-option>—Destination option.

<ip6nh-esp>—Esp.

<ip6nh-ethernet>—Ethernet.

<ip6nh-fragment>—Fragment.

<ip6nh-hop-by-hop>—Hop by hop.

<ip6nh-icmp>—ICMP.

<ip6nh-icmp6>—ICMP6.

<ip6nh-idp>—IDP.

<ip6nh-igmp>—IGMP.

<ip6nh-ip>—IP.

<ip6nh-ip6>—IP6.

<ip6nh-isoip>—ISOIP.

<ip6nh-no-next-header>—No next header.

<ip6nh-ospf>—OSPF.

<ip6nh-pim>—PIM.

<ip6nh-routing>—Routing.

<ip6nh-tcp>—TCP.

<ip6nh-tp>—TP.

<ip6nh-udp>—UDP.

<link-locals>—Link locals as source address.

<mbuf-statistics>—Header.

<multicast-packets-which-we-do-not-join>—Multicast packets which we don't join.

<node-locals>—Node locals as source address.

<option-packets-dropped-due-to-rate-limit>—Option packets dropped due to rate limit.

<output-datagrams-fragmented>—Output datagrams fragmented.

<output-packets-discarded-due-to-no-route>—Output packets discarded due to no route.

<output-packets-dropped-due-to-no-bufs>—Output packets dropped due to no bufs.

<packet-used-first-nexthop-in-ecmp-unilist>—Packet(null) used first nexthop in ecmp unilist.

<packets-destined-to-dead-next-hop>—Packets destined to dead nexthop.

<packets-discarded-due-to-too-may-headers>—Packets discarded due to too may headers.

<packets-dropped>—Packets dropped (src and int don't match).

<packets-dropped-due-to-bad-protocol>—Packets dropped due to bad protocol.

<packets-for-this-host>—Packets-for-this-host.

<packets-forwarded>—Packets forwarded.

<packets-not-forwardable>—Packets not forwardable.

<packets-reassembled-ok>—Packets reassembled ok.

<packets-sent-from-this-host>—Packets sent from this host.

<packets-sent-with-fabricated-ip-header>—Packets sent with fabricated ip header.

<packets-that-violated-scope-rules>—Packets that violated scope rules.

<packets-whose-headers-are-not-continuous>—Packets whose headers are not continuous.

<packets-with-bad-options>—Packets with bad options.

<packets-with-datasize-less-than-data-length>—Packets with data size < data length.

<packets-with-incorrect-version-number>—Packets with incorrect version number.

<packets-with-size-smaller-than-minimum>—Packets with size smaller than minimum.

<redirects-sent>—Redirects sent.

<site-locals>—Site locals as source address.

<total-packets-received>—Total packets received.

<transit-re-packet-dropped-on-mgmt-interface>—Transit re packet(null) dropped on mgmt interface.

<tunneling-packets-that-can-not-find-gif>—Tunneling packets that can't find GIF.

<ipsec>

Usage

```
<statistics>
  <ipsec>
    <inbound-packets-processed-successfully>inbound-packets-processed-successfully
                </inbound-packets-processed-successfully>

    <inbound-packets-violated-process-security-policy>inbound-packets-violated-process-sec
    urity-policy
                </inbound-packets-violated-process-security-policy>
    <inbound-packets-with-no-sa-available>inbound-packets-with-no-sa-available
                </inbound-packets-with-no-sa-available>
    <invalid-inbound-packets>invalid-inbound-packets</invalid-inbound-packets>

    <inbound-packets-failed-due-to-insufficient-memory>inbound-packets-failed-due-to-insuffi
    cient-memory
                </inbound-packets-failed-due-to-insufficient-memory>
    <inbound-packets-failed-getting-spi>inbound-packets-failed-getting-spi
                </inbound-packets-failed-getting-spi>

    <inbound-packets-failed-on-ah-replay-check>inbound-packets-failed-on-ah-replay-check
                </inbound-packets-failed-on-ah-replay-check>

    <inbound-packets-failed-on-esp-replay-check>inbound-packets-failed-on-esp-replay-check
                </inbound-packets-failed-on-esp-replay-check>
    <inbound-packets-considered-authentic>inbound-packets-considered-authentic
                </inbound-packets-considered-authentic>
    <inbound-packets-failed-on-authentication>inbound-packets-failed-on-authentication
                </inbound-packets-failed-on-authentication>

    <inbound-esp-packets-considered-authentic>inbound-esp-packets-considered-authentic
                </inbound-esp-packets-considered-authentic>

    <inbound-esp-packets-failed-on-authentication>inbound-esp-packets-failed-on-authentica
    tion
                </inbound-esp-packets-failed-on-authentication>
    <histogram>histogram</histogram>
    <ahnames-none>ahnames-none</ahnames-none>
    <ahnames-hmac-md5>ahnames-hmac-md5</ahnames-hmac-md5>
    <ahnames-hmac-sha1>ahnames-hmac-sha1</ahnames-hmac-sha1>
    <ahnames-md5>ahnames-md5</ahnames-md5>
    <ahnames-sha>ahnames-sha</ahnames-sha>
    <ahnames-null>ahnames-null</ahnames-null>
    <ahnames-hmac-sha2-256>ahnames-hmac-sha2-256</ahnames-hmac-sha2-256>
    <ahnames-hmac-sha2-384>ahnames-hmac-sha2-384</ahnames-hmac-sha2-384>
    <ahnames-hmac-sha2-512>ahnames-hmac-sha2-512</ahnames-hmac-sha2-512>

    <ahnames-hmac-ripemd160>ahnames-hmac-ripemd160</ahnames-hmac-ripemd160>
    <ahnames-aes-xcbc-mac>ahnames-aes-xcbc-mac</ahnames-aes-xcbc-mac>
    <espnames-none>espnames-none</espnames-none>
    <espnames-des-cbc>espnames-des-cbc</espnames-des-cbc>
    <espnames-3des-cbc>espnames-3des-cbc</espnames-3des-cbc>
    <espnames-null>espnames-null</espnames-null>
    <espnames-cast128-cbc>espnames-cast128-cbc</espnames-cast128-cbc>
```

```
    <espnames-blowfish-cbc>espnames-blowfish-cbc</espnames-blowfish-cbc>
    <espnames-rijndael-cbc>espnames-rijndael-cbc</espnames-rijndael-cbc>
    <espnames-aes-ctr>espnames-aes-ctr</espnames-aes-ctr>
    <compnames-none>compnames-none</compnames-none>
    <compnames-oui>compnames-oui</compnames-oui>
    <compnames-deflate>compnames-deflate</compnames-deflate>
    <compnames-lzs>compnames-lzs</compnames-lzs>
    <protocol>protocol</protocol>

<outbound-packets-processed-successfully>outbound-packets-processed-successfully
                </outbound-packets-processed-successfully>

<outbound-packets-violated-process-security-policy>outbound-packets-violated-process-s
ecurity-policy
                </outbound-packets-violated-process-security-policy>
    <outbound-packets-with-no-sa-available>outbound-packets-with-no-sa-available
                </outbound-packets-with-no-sa-available>
    <invalid-outbound-packets>invalid-outbound-packets</invalid-outbound-packets>

<outbound-packets-failed-due-to-insufficient-memory>outbound-packets-failed-due-to-ins
ufficient-memory
                </outbound-packets-failed-due-to-insufficient-memory>
    <outbound-packets-with-no-route>outbound-packets-with-no-route
                </outbound-packets-with-no-route>
    <spd-cache-lookups>spd-cache-lookups</spd-cache-lookups>
    <spd-cache-misses>spd-cache-misses</spd-cache-misses>
  </ipsec>
</statistics>
```

Description No documentation is available yet.

Contents <ahnames-aes-xcbc-mac>—AES XCBC MAC.

<ahnames-hmac-md5>—HMAC MD5.

<ahnames-hmac-ripemd160>—HAMC RIPEMD160.

<ahnames-hmac-sha1>—HMAC SHA1.

<ahnames-hmac-sha2-256>—HMAC SHA2-256.

<ahnames-hmac-sha2-384>—HMAC SHA2-384.

<ahnames-hmac-sha2-512>—HMAC SHA2-512.

<ahnames-md5>—MD5.

<ahnames-none>—AH names.

<ahnames-null>—NULL AH name.

<ahnames-sha>—SHA.

<compnames-deflate>—DEFLATE.

<compnames-lzs>—LZS.

<compnames-none>—NONE COMP names.

<compnames-oui>—OUI.

<espnames-3des-cbc>—3DES CBC.

<espnames-aes-ctr>—AES CTR.

<espnames-blowfish-cbc>—BLOWFISH CBC.

<espnames-cast128-cbc>—CAST128 CBC.

<espnames-des-cbc>—DES CBC.

<espnames-none>—ESP names.

<espnames-null>—NULL ESP name.

<espnames-rijndael-cbc>—RIJDAEL CBC.

<histogram>—Header.

<inbound-esp-packets-considered-authentic>—Inbound ESP packets considered authentic.

<inbound-esp-packets-failed-on-authentication>—Inbound ESP packets failed on authentication.

<inbound-packets-considered-authentic>—Inbound packets considered authentic.

<inbound-packets-failed-due-to-insufficient-memory>—Inbound packets failed due to insufficient memory.

<inbound-packets-failed-getting-spi>—Inbound packets failed getting SPI.

<inbound-packets-failed-on-ah-replay-check>—Inbound packets failed on AH replay check.

<inbound-packets-failed-on-authentication>—Inbound packets failed on authentication.

<inbound-packets-failed-on-esp-replay-check>—Inbound packets failed on ESP replay check.

<inbound-packets-processed-successfully>—Inbound packets processed successfully.

<inbound-packets-violated-process-security-policy>—Inbound packets violated process security policy.

<inbound-packets-with-no-sa-available>—Inbound packets with no SA available.

<invalid-inbound-packets>—Invalid inbound packets.

<invalid-outbound-packets>—Invalid outbound packets.

<outbound-packets-failed-due-to-insufficient-memory>—Outbound packets failed due to insufficient memory.

<outbound-packets-processed-successfully>—Outbound packets processed successfully.

<outbound-packets-violated-process-security-policy>—Outbound packets violated process security policy.

<outbound-packets-with-no-route>—Outbound packets with no route.

<outbound-packets-with-no-sa-available>—Outbound packets with no SA available.

<protocol>—Protocol.

<spd-cache-lookups>—SPD cache lookups.

<spd-cache-misses>—SPD cache misses.

<ipsec6>

Usage <statistics>
<ipsec6>
<inbound-packets-processed-successfully>*inbound-packets-processed-successfully*
</inbound-packets-processed-successfully>

<inbound-packets-violated-process-security-policy>*inbound-packets-violated-process-security-policy*
</inbound-packets-violated-process-security-policy>
<inbound-packets-with-no-sa-available>*inbound-packets-with-no-sa-available*
</inbound-packets-with-no-sa-available>
<invalid-inbound-packets>*invalid-inbound-packets*</invalid-inbound-packets>

<inbound-packets-failed-due-to-insufficient-memory>*inbound-packets-failed-due-to-insufficient-memory*
</inbound-packets-failed-due-to-insufficient-memory>
<inbound-packets-failed-getting-spi>*inbound-packets-failed-getting-spi*
</inbound-packets-failed-getting-spi>

<inbound-packets-failed-on-ah-replay-check>*inbound-packets-failed-on-ah-replay-check*
</inbound-packets-failed-on-ah-replay-check>

<inbound-packets-failed-on-esp-replay-check>*inbound-packets-failed-on-esp-replay-check*
</inbound-packets-failed-on-esp-replay-check>
<inbound-packets-considered-authentic>*inbound-packets-considered-authentic*
</inbound-packets-considered-authentic>
<inbound-packets-failed-on-authentication>*inbound-packets-failed-on-authentication*
</inbound-packets-failed-on-authentication>

<inbound-esp-packets-considered-authentic>*inbound-esp-packets-considered-authentic*
</inbound-esp-packets-considered-authentic>

<inbound-esp-packets-failed-on-authentication>*inbound-esp-packets-failed-on-authentication*
</inbound-esp-packets-failed-on-authentication>
<histogram>*histogram*</histogram>
<ahnames-none>*ahnames-none*</ahnames-none>
<ahnames-hmac-md5>*ahnames-hmac-md5*</ahnames-hmac-md5>
<ahnames-hmac-sha1>*ahnames-hmac-sha1*</ahnames-hmac-sha1>
<ahnames-md5>*ahnames-md5*</ahnames-md5>
<ahnames-sha>*ahnames-sha*</ahnames-sha>
<ahnames-null>*ahnames-null*</ahnames-null>
<ahnames-hmac-sha2-256>*ahnames-hmac-sha2-256*</ahnames-hmac-sha2-256>
<ahnames-hmac-sha2-384>*ahnames-hmac-sha2-384*</ahnames-hmac-sha2-384>
<ahnames-hmac-sha2-512>*ahnames-hmac-sha2-512*</ahnames-hmac-sha2-512>

<ahnames-hmac-ripemd160>*ahnames-hmac-ripemd160*</ahnames-hmac-ripemd160>
<ahnames-aes-xcbc-mac>*ahnames-aes-xcbc-mac*</ahnames-aes-xcbc-mac>
<espnames-none>*espnames-none*</espnames-none>
<espnames-des-cbc>*espnames-des-cbc*</espnames-des-cbc>
<espnames-3des-cbc>*espnames-3des-cbc*</espnames-3des-cbc>
<espnames-null>*espnames-null*</espnames-null>
<espnames-cast128-cbc>*espnames-cast128-cbc*</espnames-cast128-cbc>

```
    <espnames-blowfish-cbc>espnames-blowfish-cbc</espnames-blowfish-cbc>
    <espnames-rijndael-cbc>espnames-rijndael-cbc</espnames-rijndael-cbc>
    <espnames-aes-ctr>espnames-aes-ctr</espnames-aes-ctr>
    <compnames-none>compnames-none</compnames-none>
    <compnames-oui>compnames-oui</compnames-oui>
    <compnames-deflate>compnames-deflate</compnames-deflate>
    <compnames-lzs>compnames-lzs</compnames-lzs>
    <proto>proto</proto>

<outbound-packets-processed-successfully>outbound-packets-processed-successfully
                </outbound-packets-processed-successfully>

<outbound-packets-violated-process-security-policy>outbound-packets-violated-process-s
ecurity-policy
                </outbound-packets-violated-process-security-policy>
    <outbound-packets-with-no-sa-available>outbound-packets-with-no-sa-available
                </outbound-packets-with-no-sa-available>
    <invalid-outbound-packets>invalid-outbound-packets</invalid-outbound-packets>

<outbound-packets-failed-due-to-insufficient-memory>outbound-packets-failed-due-to-ins
ufficient-memory
                </outbound-packets-failed-due-to-insufficient-memory>
    <outbound-packets-with-no-route>outbound-packets-with-no-route
                </outbound-packets-with-no-route>
    <spd-cache-lookups>spd-cache-lookups</spd-cache-lookups>
    <spd-cache-misses>spd-cache-misses</spd-cache-misses>
  </ipsec6>
</statistics>
```

Description No documentation is available yet.

Contents <ahnames-aes-xcbc-mac>—AES XCBC MAC.

<ahnames-hmac-md5>—HMAC MD5.

<ahnames-hmac-ripemd160>—HAMC RIPEMD160.

<ahnames-hmac-sha1>—HMAC SHA1.

<ahnames-hmac-sha2-256>—HMAC SHA2-256.

<ahnames-hmac-sha2-384>—HMAC SHA2-384.

<ahnames-hmac-sha2-512>—HMAC SHA2-512.

<ahnames-md5>—MD5.

<ahnames-none>—AH names.

<ahnames-null>—NULL AH name.

<ahnames-sha>—SHA.

<compnames-deflate>—DEFLATE.

<compnames-lzs>—LZS.

<compnames-none>—NONE COMP names.

<compnames-oui>—OUI.

<espnames-3des-cbc>—3DES CBC.

<espnames-aes-ctr>—AES CTR.

<espnames-blowfish-cbc>—BLOWFISH CBC.

<espnames-cast128-cbc>—CAST128 CBC.

<espnames-des-cbc>—DES CBC.

<espnames-none>—ESP names.

<espnames-null>—NULL ESP name.

<espnames-rijndael-cbc>—RIJDAEL CBC.

<histogram>—Header.

<inbound-esp-packets-considered-authentic>—Inbound ESP packets considered authentic.

<inbound-esp-packets-failed-on-authentication>—Inbound ESP packets failed on authentication.

<inbound-packets-considered-authentic>—Inbound packets considered authentic.

<inbound-packets-failed-due-to-insufficient-memory>—Inbound packets failed due to insufficient memory.

<inbound-packets-failed-getting-spi>—Inbound packets failed getting SPI.

<inbound-packets-failed-on-ah-replay-check>—Inbound packets failed on AH replay check.

<inbound-packets-failed-on-authentication>—Inbound packets failed on authentication.

<inbound-packets-failed-on-esp-replay-check>—Inbound packets failed on ESP replay check.

<inbound-packets-processed-successfully>—Inbound packets processed successfully.

<inbound-packets-violated-process-security-policy>—Inbound packets violated process security policy.

<inbound-packets-with-no-sa-available>—Inbound packets with no SA available.

<invalid-inbound-packets>—Invalid inbound packets.

<invalid-outbound-packets>—Invalid outbound packets.

<outbound-packets-failed-due-to-insufficient-memory>—Outbound packets failed due to insufficient memory.

<outbound-packets-processed-successfully>—Outbound packets processed successfully.

<outbound-packets-violated-process-security-policy>—Outbound packets violated process security policy.

<outbound-packets-with-no-route>—Outbound packets with no route.

<outbound-packets-with-no-sa-available>—Outbound packets with no SA available.

<proto>—No documentation is available yet.

<spd-cache-lookups>—SPD cache lookups.

<spd-cache-misses>—SPD cache misses.

<mpls>

Usage

```
<statistics>
  <mpls>
    <total-mpls-packets-received>total-mpls-packets-received
                </total-mpls-packets-received>
    <packets-forwarded>packets-forwarded</packets-forwarded>
    <packets-dropped>packets-dropped</packets-dropped>
    <packets-with-header-too-small>packets-with-header-too-small
                </packets-with-header-too-small>
    <after-tagging-packets-can-not-fit-link-mtu>after-tagging-packets-can-not-fit-link-mtu
                </after-tagging-packets-can-not-fit-link-mtu>
    <packets-with-ipv4-explicit-null-tag>packets-with-ipv4-explicit-null-tag
                </packets-with-ipv4-explicit-null-tag>

<packets-with-ipv4-explicit-null-checksum-errors>packets-with-ipv4-explicit-null-checksu
m-errors
                </packets-with-ipv4-explicit-null-checksum-errors>
    <packets-with-router-alert-tag>packets-with-router-alert-tag
                </packets-with-router-alert-tag>
    <lsp-ping-packets>lsp-ping-packets</lsp-ping-packets>
    <packets-with-ttl-expired>packets-with-ttl-expired</packets-with-ttl-expired>
    <packets-with-tag-encoding-error>packets-with-tag-encoding-error
                </packets-with-tag-encoding-error>
    <packets-discarded-due-to-no-route>packets-discarded-due-to-no-route
                </packets-discarded-due-to-no-route>

<packets-used-first-nexthop-in-ecmp-unilist>packets-used-first-nexthop-in-ecmp-unilist
                </packets-used-first-nexthop-in-ecmp-unilist>
  </mpls>
</statistics>
```

Description No documentation is available yet.

Contents

<after-tagging-packets-can-not-fit-link-mtu>—After tagging, packets can't fit link MTU.

<lsp-ping-packets>—LSP ping packets (ttl-expired/router alert).

<packets-discarded-due-to-no-route>—Packets discarded due to no route.

<packets-dropped>—Packets dropped (src and int don't match).

<packets-forwarded>—Packets forwarded.

<packets-used-first-nexthop-in-ecmp-unilist>—Packets used first nexthop in ecmp unilist.

<packets-with-header-too-small>—Packets with header too small.

<packets-with-ipv4-explicit-null-checksum-errors>—Packets with IPv4 explicit NULL cksum errors.

<packets-with-ipv4-explicit-null-tag>—Packets with IPv4 explicit NULL tag.

<packets-with-router-alert-tag>—Packets with router alert tag.

<packets-with-tag-encoding-error>—Packets with tag encoding error.

<packets-with-ttl-expired>—Packets with ttl expired.

<total-mpls-packets-received>—Total MPLS packets received.

<pfkey>

Usage

```
<statistics>
  <pfkey>
    <requests-sent-from-userland>requests-sent-from-userland
                </requests-sent-from-userland>
    <bytes-sent-from-userland>bytes-sent-from-userland</bytes-sent-from-userland>
    <histogram>histogram</histogram>
    <reserved>reserved</reserved>
    <getspi>getspi</getspi>
    <update>update</update>
    <add>add</add>
    <delete>delete</delete>
    <get>get</get>
    <acquire>acquire</acquire>
    <register>register</register>
    <expire>expire</expire>
    <flush>flush</flush>
    <dump>dump</dump>
    <x-promisc>x-promisc</x-promisc>
    <x-pchange>x-pchange</x-pchange>
    <x-spdupdate>x-spdupdate</x-spdupdate>
    <x-spdadd>x-spdadd</x-spdadd>
    <x-spddelete>x-spddelete</x-spddelete>
    <x-spdget>x-spdget</x-spdget>
    <x-spdacquire>x-spdacquire</x-spdacquire>
    <x-spddump>x-spddump</x-spddump>
    <x-spdflush>x-spdflush</x-spdflush>
    <x-spdsetidx>x-spdsetidx</x-spdsetidx>
    <x-spdexpire>x-spdexpire</x-spdexpire>
    <x-spddelete2>x-spddelete2</x-spddelete2>
    <messages-with-invalid-length-field>messages-with-invalid-length-field
                </messages-with-invalid-length-field>
    <messages-with-invalid-version-field>messages-with-invalid-version-field
                </messages-with-invalid-version-field>

<messages-with-invalid-message-type-field>messages-with-invalid-message-type-field
                </messages-with-invalid-message-type-field>
    <messages-too-short>messages-too-short</messages-too-short>

<outgoing-messages-with-memory-allocation-failure>outgoing-messages-with-memory-all
ocation-failure
                </outgoing-messages-with-memory-allocation-failure>
    <messages-with-duplicate-extension>messages-with-duplicate-extension
                </messages-with-duplicate-extension>
    <messages-with-invalid-extension-type>messages-with-invalid-extension-type
                </messages-with-invalid-extension-type>
    <messages-with-invalid-sa-type>messages-with-invalid-sa-type
                </messages-with-invalid-sa-type>
    <messages-with-invalid-address-extension>messages-with-invalid-address-extension
                </messages-with-invalid-address-extension>
    <requests-sent-to-userland>requests-sent-to-userland
                </requests-sent-to-userland>
    <bytes-sent-to-userland>bytes-sent-to-userland</bytes-sent-to-userland>
```

```
        <messages-toward-single-socket>messages-toward-single-socket
                        </messages-toward-single-socket>
        <messages-toward-all-sockets>messages-toward-all-sockets
                        </messages-toward-all-sockets>
        <messages-toward-registered-sockets>messages-toward-registered-sockets
                        </messages-toward-registered-sockets>

<incoming-messages-with-memory-allocation-failure>incoming-messages-with-memory-al
location-failure
                        </incoming-messages-with-memory-allocation-failure>
    </pfkey>
</statistics>
```

Description No documentation is available yet.

Contents <acquire>—Acquire.

<add>—Add.

<bytes-sent-from-userland>—Bytes sent from userland.

<bytes-sent-to-userland>—Bytes sent to userland.

<delete>—Delete.

<dump>—Dump.

<expire>—Expire.

<flush>—Flush.

<get>—Get.

<getspi>—Getspi.

<histogram>—Header.

<incoming-messages-with-memory-allocation-failure>—Incoming messages with memory allocation failure.

<messages-too-short>—Messages too short.

<messages-toward-all-sockets>—Messages toward all sockets.

<messages-toward-registered-sockets>—Messages toward registered sockets.

<messages-toward-single-socket>—Messages toward single socket.

<messages-with-duplicate-extension>—Messages with duplicate extension.

<messages-with-invalid-address-extension>—Messages with invalid address extension.

<messages-with-invalid-extension-type>—Messages with invalid extension type.

<messages-with-invalid-length-field>—Messages with invalid length field.

<messages-with-invalid-message-type-field>—Messages with invalid message type field.

<messages-with-invalid-sa-type>—Messages with invalid SA type.

<messages-with-invalid-version-field>—Messages with invalid version field.

<outgoing-messages-with-memory-allocation-failure>—Outgoing messages with memory allocation failure.

<register>—Register.

<requests-sent-from-userland>—Requests sent from userland.

<requests-sent-to-userland>—Requests sent to userland.

<reserved>—Reserved.

<update>—Update.

<x-pchange>—X_PCHANGE.

<x-promisc>—X_PROMISC.

<x-spdacquire>—X_SPDACQUIRE.

<x-spdadd>—X_SPDADD.

<x-spddelete>—X_SPDDELETE.

<x-spddelete2>—X_SPDDELETE2.

<x-spddump>—X_SPDDUMP.

<x-spdexpire>—X_SPDEXPIRE.

<x-spdflush>—X_SPDFLUSH.

<x-spdget>—X_SPDGET.

<x-spdsetidx>—X_SPDSETIDX.

<x-spdupdate>—X_SPDUPDATE.

<raw-interface>

Usage

```
<statistics>
  <raw-interface>
    <raw-packets-transmitted>raw-packets-transmitted</raw-packets-transmitted>
    <ppoe-packets-transmitted>ppoe-packets-transmitted</ppoe-packets-transmitted>
    <isdn-packets-transmitted>isdn-packets-transmitted</isdn-packets-transmitted>
    <dialer-packets-transmitted>dialer-packets-transmitted
                </dialer-packets-transmitted>
    <ppp-packets-transmitted-to-pppd>ppp-packets-transmitted-to-pppd
                </ppp-packets-transmitted-to-pppd>
    <ppp-packets-transmitted-to-jppd>ppp-packets-transmitted-to-jppd
                </ppp-packets-transmitted-to-jppd>
    <igmpl2-packets-transmitted>igmpl2-packets-transmitted
                </igmpl2-packets-transmitted>
    <output-drops-due-to-transmit-error>output-drops-due-to-transmit-error
                </output-drops-due-to-transmit-error>
    <mpu-packets-transmitted>mpu-packets-transmitted</mpu-packets-transmitted>
    <pppoe-packets-received>pppoe-packets-received</pppoe-packets-received>
    <isdn-packets-received>isdn-packets-received</isdn-packets-received>
    <dialer-packets-received>dialer-packets-received</dialer-packets-received>
    <ppp-packets-received-from-pppd>ppp-packets-received-from-pppd
                </ppp-packets-received-from-pppd>
    <mpu-packets-received>mpu-packets-received</mpu-packets-received>
    <ppp-packets-received-from-jppd>ppp-packets-received-from-jppd
                </ppp-packets-received-from-jppd>
    <igmpl2-packets-received>igmpl2-packets-received</igmpl2-packets-received>
    <input-drops-due-to-bogus-protocol>input-drops-due-to-bogus-protocol
                </input-drops-due-to-bogus-protocol>
    <input-drops-due-to-no-mbufs-available>input-drops-due-to-no-mbufs-available
                </input-drops-due-to-no-mbufs-available>
    <input-drops-due-to-no-space-in-socket>input-drops-due-to-no-space-in-socket
                </input-drops-due-to-no-space-in-socket>
    <input-drops-due-to-no-socket>input-drops-due-to-no-socket
                </input-drops-due-to-no-socket>
  </raw-interface>
</statistics>
```

Description No documentation is available yet.

Contents <dialer-packets-received>—DIALER packets received.

<dialer-packets-transmitted>—DIALER packets transmitted.

<igmpl2-packets-received>—IGMPL2 packets received.

<igmpl2-packets-transmitted>—IGMPL2 packets transmitted.

<input-drops-due-to-bogus-protocol>—Input drops due to bogus protocol.

<input-drops-due-to-no-mbufs-available>—Input drops due to no mbufs available.

<input-drops-due-to-no-socket>—Input drops due to no socket.

<input-drops-due-to-no-space-in-socket>—Input drops due to no space in socket.

<isdn-packets-received>—ISDN packets received.

<isdn-packets-transmitted>—ISDN packets transmitted.

<mpu-packets-received>—MPU packets received.

<mpu-packets-transmitted>—MPU packets transmitted.

<output-drops-due-to-transmit-error>—Output drops due to tx error.

<ppoe-packets-transmitted>—PPPOE packets transmitted.

<ppp-packets-received-from-jppd>—PPP packets received from jppd.

<ppp-packets-received-from-pppd>—PPP packets received from pppd.

<ppp-packets-transmitted-to-jppd>—PPP packets transmitted to jppd.

<ppp-packets-transmitted-to-pppd>—PPP packets transmitted to pppd.

<pppoe-packets-received>—PPPOE packets received.

<raw-packets-transmitted>—RAW packets transmitted.

<rdp>

Usage

```
<statistics>
  <rdp>
    <input-packets>input-packets</input-packets>
    <packets-discarded-for-bad-checksum>packets-discarded-for-bad-checksum
                </packets-discarded-for-bad-checksum>

<packets-discarded-due-to-bad-sequence-number>packets-discarded-due-to-bad-sequen
ce-number
                </packets-discarded-due-to-bad-sequence-number>
    <refused-connections>refused-connections</refused-connections>
    <acks-received>acks-received</acks-received>

<packets-dropped-due-to-full-socket-buffers>packets-dropped-due-to-full-socket-buffers
                </packets-dropped-due-to-full-socket-buffers>
    <retransmits>retransmits</retransmits>
    <output-packets>output-packets</output-packets>
    <acks-sent>acks-sent</acks-sent>
    <connects>connects</connects>
    <closes>closes</closes>
    <keepalives-received>keepalives-received</keepalives-received>
    <keepalives-sent>keepalives-sent</keepalives-sent>
  </rdp>
</statistics>
```

Description No documentation is available yet.

Contents

<acks-received>—Acks received.

<acks-sent>—Acks sent.

<closes>—Closes.

<connects>—Connects.

<input-packets>—Input packets.

<keepalives-received>—Keepalives received.

<keepalives-sent>—Keepalives sent.

<output-packets>—Output packets.

<packets-discarded-due-to-bad-sequence-number>—Packets discarded due to bad sequence number.

<packets-discarded-for-bad-checksum>—Packets discarded for bad checksum.

<packets-dropped-due-to-full-socket-buffers>—Packets dropped due to full socket buffers.

<refused-connections>—Refused connections.

<retransmits>—Retransmits.

<statistics>

Usage

```
<rpc-reply>
  <statistics>
    <tcp>...</tcp>
    <udp>...</udp>
    <ip>...</ip>
    <icmp>...</icmp>
    <igmp>...</igmp>
    <ipsec>...</ipsec>
    <raw-interface>...</raw-interface>
    <arp>...</arp>
    <ip6>...</ip6>
    <icmp6>...</icmp6>
    <ipsec6>...</ipsec6>
    <pfkey>...</pfkey>
    <clnl>...</clnl>
    <esis>...</esis>
    <tnp>...</tnp>
    <rdp>...</rdp>
    <tudp>...</tudp>
    <ttp>...</ttp>
    <mpls>...</mpls>
    <vpls>...</vpls>
    <bridge>...</bridge>
  </statistics>
</rpc-reply>
```

Description No documentation is available yet.

Contents <arp>—No documentation is available yet.

<bridge>—No documentation is available yet.

<clnl>—No documentation is available yet.

<esis>—No documentation is available yet.

<icmp>—No documentation is available yet.

<icmp6>—No documentation is available yet.

<igmp>—No documentation is available yet.

<ip>—No documentation is available yet.

<ip6>—No documentation is available yet.

<ipsec>—No documentation is available yet.

<ipsec6>—No documentation is available yet.

<mpls>—No documentation is available yet.

<pfkey>—No documentation is available yet.

<raw-interface>—No documentation is available yet.

<rdp>—No documentation is available yet.

<tcp>—No documentation is available yet.

<tnp>—No documentation is available yet.

<ttp>—No documentation is available yet.

<tudp>—No documentation is available yet.

<udp>—No documentation is available yet.

<vpls>—No documentation is available yet.

<tcp>

Usage

```
<statistics>
  <tcp>
    <packets-sent>packets-sent</packets-sent>
    <sent-data-packets>sent-data-packets</sent-data-packets>
    <data-packets-bytes>data-packets-bytes</data-packets-bytes>
    <sent-data-packets-retransmitted>sent-data-packets-retransmitted
            </sent-data-packets-retransmitted>
    <retransmitted-bytes>retransmitted-bytes</retransmitted-bytes>
    <sent-resends-by-mtu-discovery>sent-resends-by-mtu-discovery
            </sent-resends-by-mtu-discovery>
    <sent-ack-only-packets>sent-ack-only-packets</sent-ack-only-packets>
    <sent-packets-delayed>sent-packets-delayed</sent-packets-delayed>
    <sent-urg-only-packets>sent-urg-only-packets</sent-urg-only-packets>
    <sent-window-probe-packets>sent-window-probe-packets
            </sent-window-probe-packets>
    <sent-window-update-packets>sent-window-update-packets
            </sent-window-update-packets>
    <sent-control-packets>sent-control-packets</sent-control-packets>
    <packets-received>packets-received</packets-received>
    <received-acks>received-acks</received-acks>
    <acks-bytes>acks-bytes</acks-bytes>
    <received-duplicate-acks>received-duplicate-acks</received-duplicate-acks>
    <received-acks-for-unsent-data>received-acks-for-unsent-data
            </received-acks-for-unsent-data>
    <packets-received-in-sequence>packets-received-in-sequence
            </packets-received-in-sequence>
    <in-sequence-bytes>in-sequence-bytes</in-sequence-bytes>
    <received-completely-duplicate-packet>received-completely-duplicate-packet
            </received-completely-duplicate-packet>
    <duplicate-in-bytes>duplicate-in-bytes</duplicate-in-bytes>
    <received-old-duplicate-packets>received-old-duplicate-packets
            </received-old-duplicate-packets>

  <received-packets-with-some-dupliacte-data>received-packets-with-some-dupliacte-data
            </received-packets-with-some-dupliacte-data>
    <some-duplicate-in-bytes>some-duplicate-in-bytes</some-duplicate-in-bytes>
    <received-out-of-order-packets>received-out-of-order-packets
            </received-out-of-order-packets>
    <out-of-order-in-bytes>out-of-order-in-bytes</out-of-order-in-bytes>
    <received-packets-of-data-after-window>received-packets-of-data-after-window
            </received-packets-of-data-after-window>
    <bytes>bytes</bytes>
    <received-window-probes>received-window-probes</received-window-probes>
    <received-window-update-packets>received-window-update-packets
            </received-window-update-packets>
    <packets-received-after-close>packets-received-after-close
            </packets-received-after-close>
    <received-discarded-for-bad-checksum>received-discarded-for-bad-checksum
            </received-discarded-for-bad-checksum>
    <received-discarded-for-bad-header-offset>received-discarded-for-bad-header-offset
            </received-discarded-for-bad-header-offset>
```

<received-discarded-because-packet-too-short>*received-discarded-because-packet-too-short*
</received-discarded-because-packet-too-short>
<connection-requests>*connection-requests*</connection-requests>
<connection-accepts>*connection-accepts*</connection-accepts>
<bad-connection-attempts>*bad-connection-attempts*</bad-connection-attempts>
<listen-queue-overflows>*listen-queue-overflows*</listen-queue-overflows>
<connections-established>*connections-established*</connections-established>
<connections-closed>*connections-closed*</connections-closed>
<drops>*drops*</drops>
<connections-updated-rtt-on-close>*connections-updated-rtt-on-close*
</connections-updated-rtt-on-close>
<connections-updated-variance-on-close>*connections-updated-variance-on-close*
</connections-updated-variance-on-close>
<connections-updated-ssthresh-on-close>*connections-updated-ssthresh-on-close*
</connections-updated-ssthresh-on-close>
<embryonic-connections-dropped>*embryonic-connections-dropped*
</embryonic-connections-dropped>
<segments-updated-rtt>*segments-updated-rtt*</segments-updated-rtt>
<attempts>*attempts*</attempts>
<retransmit-timeouts>*retransmit-timeouts*</retransmit-timeouts>

<connections-dropped-by-retransmit-timeout>*connections-dropped-by-retransmit-timeout*
</connections-dropped-by-retransmit-timeout>
<persist-timeouts>*persist-timeouts*</persist-timeouts>
<connections-dropped-by-persist-timeout>*connections-dropped-by-persist-timeout*
</connections-dropped-by-persist-timeout>
<keepalive-timeouts>*keepalive-timeouts*</keepalive-timeouts>
<keepalive-probes-sent>*keepalive-probes-sent*</keepalive-probes-sent>
<keepalive-connections-dropped>*keepalive-connections-dropped*
</keepalive-connections-dropped>
<ack-header-predictions>*ack-header-predictions*</ack-header-predictions>
<data-packet-header-predictions>*data-packet-header-predictions*
</data-packet-header-predictions>
<syncache-entries-added>*syncache-entries-added*</syncache-entries-added>
<retransmitted>*retransmitted*</retransmitted>
<dupsyn>*dupsyn*</dupsyn>
<dropped>*dropped*</dropped>
<completed>*completed*</completed>
<bucket-overflow>*bucket-overflow*</bucket-overflow>
<cache-overflow>*cache-overflow*</cache-overflow>
<reset>*reset*</reset>
<stale>*stale*</stale>
<aborted>*aborted*</aborted>
<badack>*badack*</badack>
<unreach>*unreach*</unreach>
<zone-failures>*zone-failures*</zone-failures>
<cookies-sent>*cookies-sent*</cookies-sent>
<cookies-received>*cookies-received*</cookies-received>
<sack-recovery-episodes>*sack-recovery-episodes*</sack-recovery-episodes>
<segment-retransmits>*segment-retransmits*</segment-retransmits>
<byte-retransmits>*byte-retransmits*</byte-retransmits>
<sack-options-received>*sack-options-received*</sack-options-received>
<sack-opitions-sent>*sack-opitions-sent*</sack-opitions-sent>

```
        <sack-scoreboard-overflow>sack-scoreboard-overflow</sack-scoreboard-overflow>
        <acks-sent-in-response-but-not-exact-rsts>acks-sent-in-response-but-not-exact-rsts
                </acks-sent-in-response-but-not-exact-rsts>

    <acks-sent-in-response-to-syns-on-established-connections>acks-sent-in-response-to-syn
s-on-established-connections
                </acks-sent-in-response-to-syns-on-established-connections>
        <rcv-packets-dropped-due-to-bad-address>rcv-packets-dropped-due-to-bad-address
                </rcv-packets-dropped-due-to-bad-address>
        <out-of-sequence-segment-drops>out-of-sequence-segment-drops
                </out-of-sequence-segment-drops>
        <rst-packets>rst-packets</rst-packets>
        <icmp-packets-ignored>icmp-packets-ignored</icmp-packets-ignored>
        <send-packets-dropped>send-packets-dropped</send-packets-dropped>
        <rcv-packets-dropped>rcv-packets-dropped</rcv-packets-dropped>
        <outgoing-segments-dropped>outgoing-segments-dropped
                </outgoing-segments-dropped>
      </tcp>
    </statistics>
```

Description No documentation is available yet.

Contents <aborted>—Aborted in syncache entries added.

<ack-header-predictions>—Correct ACK header predictions.

<acks-bytes>—Number of bytes.

<acks-sent-in-response-but-not-exact-rsts>—ACKs sent in response to in-window but not exact RSTs.

<acks-sent-in-response-to-syns-on-established-connections>—ACKs sent in response to in-window SYNs on established connections.

<attempts>—Attempts.

<bad-connection-attempts>—Bad connection attempts.

<badack>—Bad ACK in syncache entries added.

<bucket-overflow>—Bucket overflow in syncache entries added.

<byte-retransmits>—Byte retransmits in SACK recovery episodes.

<bytes>—Packets of data after window in bytes.

<cache-overflow>—Cache overflow in syncache entries added.

<completed>—Completed in syncache entries added.

<connection-accepts>—Connection accepts.

<connection-requests>—Connection requests.

<connections-closed>—Connections closed.

<connections-dropped-by-persist-timeout>—No documentation is available yet.

<connections-dropped-by-retransmit-timeout>—Connections dropped.

<connections-established>—Connections established.

<connections-updated-rtt-on-close>—Connections updated cached RTT on close.

<connections-updated-ssthresh-on-close>—Connections updated cached ssthresh on close.

<connections-updated-variance-on-close>—Connections updated cached RTT variance on close.

<cookies-received>—Cookies received.

<cookies-sent>—Cookies sent.

<data-packet-header-predictions>—Correct data packet header predictions.

<data-packets-bytes>—In terms of bytes.

<dropped>—Dropped in syncache entries added.

<drops>—Drops.

<duplicate-in-bytes>—Completely duplicate packets in bytes.

<dupsyn>—Dupsyn in syncache entries added.

<embryonic-connections-dropped>—Embryonic connections dropped.

<icmp-packets-ignored>—ICMP packets ignored by TCP.

<in-sequence-bytes>—Packets received in-sequence in bytes.

<keepalive-connections-dropped>—Keepalive connections dropped.

<keepalive-probes-sent>—Keepalive probes sent.

<keepalive-timeouts>—Keepalive timeouts.

<listen-queue-overflows>—Listen queue overflows.

<out-of-order-in-bytes>—Out-of-order packets in bytes.

<out-of-sequence-segment-drops>—Out-of-sequence segment drops due to insufficient memory.

<outgoing-segments-dropped>—Outgoing segments dropped due to policing.

<packets-received>—Packets received.

<packets-received-after-close>—Packets received after close.

<packets-received-in-sequence>—Packets received in-sequence.

<packets-sent>—Packets sent.

<persist-timeouts>—Persist timeouts.

<rcv-packets-dropped>—No documentation is available yet.

<rcv-packets-dropped-due-to-bad-address>—Rcv packets dropped dropped by TCP due to bad address.

<received-acks>—Acks.

<received-acks-for-unsent-data>—Acks for unsent data.

<received-completely-duplicate-packet>—Completely duplicate packets.

<received-discarded-because-packet-too-short>—Discarded because packet too short.

<received-discarded-for-bad-checksum>—Discarded for bad checksum.

<received-discarded-for-bad-header-offset>—Discarded for bad header offset fields.

<received-duplicate-acks>—Dupliacte acks.

<received-old-duplicate-packets>—Old duplicate packets.

<received-out-of-order-packets>—Out-of-order packets.

<received-packets-of-data-after-window>—Packets of data after window.

<received-packets-with-some-dupliacte-data>—Packets with some duplicate data.

<received-window-probes>—Window probes.

<received-window-update-packets>—No documentation is available yet.

<reset>—Reset in syncache entries added.

<retransmit-timeouts>—Retransmit timeouts.

<retransmitted>—Retransmitted in syncache entries added.

<retransmitted-bytes>—In terms of bytes.

<rst-packets>—RST packets.

<sack-opitions-sent>—SACK options (SACK blocks) sent.

<sack-options-received>—SACK options (SACK blocks) received.

<sack-recovery-episodes>—SACK recovery episodes.

<sack-scoreboard-overflow>—SACK scoreboard overflow.

<segment-retransmits>—Segment retransmits in SACK recovery episodes.

<segments-updated-rtt>—Segments updated RTT.

<send-packets-dropped>—Send packets dropped by TCP due to auth errors.

<sent-ack-only-packets>—Ack-only packets.

<sent-control-packets>—Control packets.

<sent-data-packets>—Data packets.

<sent-data-packets-retransmitted>—Data packets retransmitted.

<sent-packets-delayed>—Number of packets delayed.

<sent-resends-by-mtu-discovery>—Resends initiated by MTU discovery.

<sent-urg-only-packets>—URG only packets.

<sent-window-probe-packets>—Window probe packets.

<sent-window-update-packets>—Window update packets.

<some-duplicate-in-bytes>—Packets with some duplicate data in bytes.

<stale>—Stale in syncache entries added.

<syncache-entries-added>—Syncache entries added.

<unreach>—Unreach in syncache entries added.

<zone-failures>—Zone failures in syncache entries added.

<tnp>

Usage

```
<statistics>
  <tnp>
    <unicast-packets-received>unicast-packets-received</unicast-packets-received>
    <broadcast-packets-received>broadcast-packets-received
            </broadcast-packets-received>
    <fragmented-packets-received>fragmented-packets-received
            </fragmented-packets-received>
    <received-hello-packets-dropped>received-hello-packets-dropped
            </received-hello-packets-dropped>
    <received-fragments-dropped>received-fragments-dropped
            </received-fragments-dropped>
    <fragment-reassembly-queue-flushes>fragment-reassembly-queue-flushes
            </fragment-reassembly-queue-flushes>

<packets-with-tnp-src-address-collision-received>packets-with-tnp-src-address-collision-r
eceived
            </packets-with-tnp-src-address-collision-received>
    <hello-packets-received>hello-packets-received</hello-packets-received>
    <control-packets-received>control-packets-received</control-packets-received>
    <rdp-packets-received>rdp-packets-received</rdp-packets-received>
    <udp-packets-received>udp-packets-received</udp-packets-received>
    <tunnel-packets-received>tunnel-packets-received</tunnel-packets-received>
    <input-packets-discarded-with-no-protocol>input-packets-discarded-with-no-protocol
            </input-packets-discarded-with-no-protocol>
    <packets-of-version-unspecified-received>packets-of-version-unspecified-received
            </packets-of-version-unspecified-received>
    <packets-of-version1-received>packets-of-version1-received
            </packets-of-version1-received>
    <packets-of-version2-received>packets-of-version2-received
            </packets-of-version2-received>
    <packets-of-version3-received>packets-of-version3-received
            </packets-of-version3-received>
    <unicast-packets-sent>unicast-packets-sent</unicast-packets-sent>
    <broadcast-packets-sent>broadcast-packets-sent</broadcast-packets-sent>
    <fragmented-packets-sent>fragmented-packets-sent</fragmented-packets-sent>
    <sent-hello-packets-dropped>sent-hello-packets-dropped
            </sent-hello-packets-dropped>
    <sent-fragments-dropped>sent-fragments-dropped</sent-fragments-dropped>
    <hello-packets-sent>hello-packets-sent</hello-packets-sent>
    <control-packets-sent>control-packets-sent</control-packets-sent>
    <rdp-packets-sent>rdp-packets-sent</rdp-packets-sent>
    <udp-packets-sent>udp-packets-sent</udp-packets-sent>
    <tunnel-packets-sent>tunnel-packets-sent</tunnel-packets-sent>
    <packets-sent-with-unknown-protocol>packets-sent-with-unknown-protocol
            </packets-sent-with-unknown-protocol>
    <packets-of-version-unspecified-sent>packets-of-version-unspecified-sent
            </packets-of-version-unspecified-sent>
    <packets-of-version1-sent>packets-of-version1-sent</packets-of-version1-sent>
    <packets-of-version2-sent>packets-of-version2-sent</packets-of-version2-sent>
    <packets-of-version3-sent>packets-of-version3-sent</packets-of-version3-sent>
  </tnp>
</statistics>
```

Description No documentation is available yet.

Contents <broadcast-packets-received>—Broadcast packets received.

<broadcast-packets-sent>—Broadcast packets sent.

<control-packets-received>—Control packets received.

<control-packets-sent>—Control packets sent.

<fragment-reassembly-queue-flushes>—Fragment reassembly queue flushes.

<fragmented-packets-received>—Fragmented packets received.

<fragmented-packets-sent>—Fragmented packets sent.

<hello-packets-received>—Hello packets received.

<hello-packets-sent>—Hello packets sent.

<input-packets-discarded-with-no-protocol>—Input packets discarded with no protocol.

<packets-of-version-unspecified-received>—Packets of version unspecified received.

<packets-of-version-unspecified-sent>—Packets of version unspecified sent.

<packets-of-version1-received>—Packets of version 1 received.

<packets-of-version1-sent>—Packets of version 1 sent.

<packets-of-version2-received>—Packets of version 2 received.

<packets-of-version2-sent>—Packets of version 2 sent.

<packets-of-version3-received>—Packets of version 3 received.

<packets-of-version3-sent>—Packets of version 3 sent.

<packets-sent-with-unknown-protocol>—Packets sent with unknown protocol.

<packets-with-tnp-src-address-collision-received>—Packets with tnp src address collision received.

<rdp-packets-received>—RDP packets received.

<rdp-packets-sent>—Rdp packets sent.

<received-fragments-dropped>—Fragments dropped.

<received-hello-packets-dropped>—Hello packets dropped.

<sent-fragments-dropped>—Fragments dropped.

<sent-hello-packets-dropped>—Hello packets dropped.

<tunnel-packets-received>—Tunnel packets received.

<tunnel-packets-sent>—Tunnel packets sent.

<udp-packets-received>—UDP packets received.

<udp-packets-sent>—Udp packets sent.

<unicast-packets-received>—Unicast packets received.

<unicast-packets-sent>—Unicast packets sent.

<ttp>

Usage

```
<statistics>
  <ttp>
    <packets-sent>packets-sent</packets-sent>
    <packets-sent-while-unconnected>packets-sent-while-unconnected
                </packets-sent-while-unconnected>
    <packets-sent-while-interface-down>packets-sent-while-interface-down
                </packets-sent-while-interface-down>
    <packets-sent-could-not-get-buffer>packets-sent-could-not-get-buffer
                </packets-sent-could-not-get-buffer>
    <packets-sent-could-not-find-neighbor>packets-sent-could-not-find-neighbor
                </packets-sent-could-not-find-neighbor>
    <l2-packets-received>l2-packets-received</l2-packets-received>
    <unknown-l3-packets-received>unknown-l3-packets-received
                </unknown-l3-packets-received>
    <ipv4-l3-packets-received>ipv4-l3-packets-received</ipv4-l3-packets-received>
    <mpls-l3-packets-received>mpls-l3-packets-received</mpls-l3-packets-received>
    <mpls-to-ipv4-l3-packets-received>mpls-to-ipv4-l3-packets-received
                </mpls-to-ipv4-l3-packets-received>
    <ipv4-to-mpls-l3-packets-received>ipv4-to-mpls-l3-packets-received
                </ipv4-to-mpls-l3-packets-received>
    <ipv6-l3-packets-received>ipv6-l3-packets-received</ipv6-l3-packets-received>
    <arp-l3-packets-received>arp-l3-packets-received</arp-l3-packets-received>
    <clnp-l3-packets-received>clnp-l3-packets-received</clnp-l3-packets-received>
    <tnp-l3-packets-received>tnp-l3-packets-received</tnp-l3-packets-received>
    <null-l3-packets-received>null-l3-packets-received</null-l3-packets-received>
    <cyclotron-cycle-l3-packets-received>cyclotron-cycle-l3-packets-received
                </cyclotron-cycle-l3-packets-received>
    <cyclotron-send-l3-packets-received>cyclotron-send-l3-packets-received
                </cyclotron-send-l3-packets-received>
    <packets-received-while-unconnected>packets-received-while-unconnected
                </packets-received-while-unconnected>
    <packets-received-from-unknown-ifl>packets-received-from-unknown-ifl
                </packets-received-from-unknown-ifl>
    <input-packets-could-not-get-buffer>input-packets-could-not-get-buffer
                </input-packets-could-not-get-buffer>
    <input-packets-with-bad-type>input-packets-with-bad-type
                </input-packets-with-bad-type>
    <input-packets-with-discard-type>input-packets-with-discard-type
                </input-packets-with-discard-type>

<input-packets-for-which-route-lookup-is-bypassed>input-packets-for-which-route-lookup-i
s-bypassed
                </input-packets-for-which-route-lookup-is-bypassed>
  </ttp>
</statistics>
```

Description No documentation is available yet.

Contents <arp-l3-packets-received>—ARP L3 packets received.

<clnp-l3-packets-received>—CLNP L3 packets received.

<cyclotron-cycle-l3-packets-received>—Cyclotron cycle L3 packets received.

<cyclotron-send-l3-packets-received>—Cyclotron send L3 packets received.

<input-packets-could-not-get-buffer>—Input packets couldn't get buffer.

<input-packets-for-which-route-lookup-is-bypassed>—Input packets for which route lookup is bypassed.

<input-packets-with-bad-type>—Input packets with bad type.

<input-packets-with-discard-type>—Input packets with discard type.

<ipv4-l3-packets-received>—IPv4 L3 packets received.

<ipv4-to-mpls-l3-packets-received>—IPv4- > MPLS L3 packets received.

<ipv6-l3-packets-received>—IPv6 L3 packets received.

<l2-packets-received>—L2 packets received.

<mpls-l3-packets-received>—MPLS L3 packets received.

<mpls-to-ipv4-l3-packets-received>—MPLS- > IPV4 L3 packets received.

<null-l3-packets-received>—NULL L3 packets received.

<packets-received-from-unknown-ifl>—Packets received from unknown ifl.

<packets-received-while-unconnected>—Packets received while unconnected.

<packets-sent>—Packets sent.

<packets-sent-could-not-find-neighbor>—Packets sent could't find neighbor.

<packets-sent-could-not-get-buffer>—Packets sent couldn't get buffer.

<packets-sent-while-interface-down>—Packets sent while interface down.

<packets-sent-while-unconnected>—Packets sent while unconnected.

<tnp-l3-packets-received>—TNP L3 packets received.

<unknown-l3-packets-received>—Unknown L3 packets received.

<tudp>

Usage

```
<statistics>
  <tudp>
    <datagrams-received>datagrams-received</datagrams-received>
    <datagrams-with-incomplete-header>datagrams-with-incomplete-header
                </datagrams-with-incomplete-header>
    <datagrams-with-bad-data-length-field>datagrams-with-bad-data-length-field
                </datagrams-with-bad-data-length-field>
    <datagrams-with-bad-checksum>datagrams-with-bad-checksum
                </datagrams-with-bad-checksum>
    <datagrams-dropped-due-to-no-socket>datagrams-dropped-due-to-no-socket
                </datagrams-dropped-due-to-no-socket>

<broadcast-or-multicast-datagrams-dropped-due-to-no-socket>broadcast-or-multicast-dat
agrams-dropped-due-to-no-socket
                </broadcast-or-multicast-datagrams-dropped-due-to-no-socket>

<datagrams-dropped-due-to-full-socket-buffers>datagrams-dropped-due-to-full-socket-buf
fers
                </datagrams-dropped-due-to-full-socket-buffers>
    <delivered>delivered</delivered>
    <datagrams-output>datagrams-output</datagrams-output>
  </tudp>
</statistics>
```

Description No documentation is available yet.

Contents

<broadcast-or-multicast-datagrams-dropped-due-to-no-socket>—Broadcast/multicast datagrams dropped due to no socket.

<datagrams-dropped-due-to-full-socket-buffers>—Datagrams dropped due to full socket buffers.

<datagrams-dropped-due-to-no-socket>—Datagrams dropped due to no socket.

<datagrams-output>—Datagrams output.

<datagrams-received>—Datagrams received.

<datagrams-with-bad-checksum>—Datagrams with bad checksum.

<datagrams-with-bad-data-length-field>—Datagrams with bad data length field.

<datagrams-with-incomplete-header>—Datagrams with incomplete header.

<delivered>—Delivered.

<udp>

Usage

```
<statistics>
  <udp>
    <datagrams-received>datagrams-received</datagrams-received>
    <datagrams-with-incomplete-header>datagrams-with-incomplete-header
            </datagrams-with-incomplete-header>
    <datagrams-with-bad-datalength-field>datagrams-with-bad-datalength-field
            </datagrams-with-bad-datalength-field>
    <datagrams-with-bad-checksum>datagrams-with-bad-checksum
            </datagrams-with-bad-checksum>
    <datagrams-dropped-due-to-no-socket>datagrams-dropped-due-to-no-socket
            </datagrams-dropped-due-to-no-socket>

<broadcast-or-multicast-datagrams-dropped-due-to-no-socket>broadcast-or-multicast-dat
agrams-dropped-due-to-no-socket
            </broadcast-or-multicast-datagrams-dropped-due-to-no-socket>

<datagrams-dropped-due-to-full-socket-buffers>datagrams-dropped-due-to-full-socket-buf
fers
            </datagrams-dropped-due-to-full-socket-buffers>
    <datagrams-not-for-hashed-pcb>datagrams-not-for-hashed-pcb
            </datagrams-not-for-hashed-pcb>
    <datagrams-delivered>datagrams-delivered</datagrams-delivered>
    <datagrams-output>datagrams-output</datagrams-output>
  </udp>
</statistics>
```

Description No documentation is available yet.

Contents

<broadcast-or-multicast-datagrams-dropped-due-to-no-socket>—Broadcast/multicast datagrams dropped due to no socket.

<datagrams-delivered>—Datagrams delivered.

<datagrams-dropped-due-to-full-socket-buffers>—Datagrams dropped due to full socket buffers.

<datagrams-dropped-due-to-no-socket>—Datagrams dropped due to no socket.

<datagrams-not-for-hashed-pcb>—Datagrams not for hashed pcb.

<datagrams-output>—Datagrams output.

<datagrams-received>—Datagrams received.

<datagrams-with-bad-checksum>—Datagrams with bad checksum.

<datagrams-with-bad-datalength-field>—Datagrams with bad data length field.

<datagrams-with-incomplete-header>—Datagrams with incomplete header.

<vpls>

Usage

```
<statistics>
  <vpls>
    <total-packets-received>total-packets-received</total-packets-received>
    <packets-with-size-smaller-than-minimum>packets-with-size-smaller-than-minimum
        </packets-with-size-smaller-than-minimum>
    <packets-with-incorrect-version-number>packets-with-incorrect-version-number
        </packets-with-incorrect-version-number>
    <packets-for-this-host>packets-for-this-host</packets-for-this-host>
    <packets-with-no-logical-interface>packets-with-no-logical-interface
        </packets-with-no-logical-interface>
    <packets-with-no-family>packets-with-no-family</packets-with-no-family>
    <packets-with-no-route-table>packets-with-no-route-table
        </packets-with-no-route-table>
    <packets-with-no-auxiliary-table>packets-with-no-auxiliary-table
        </packets-with-no-auxiliary-table>
    <packets-with-no-corefacing-entry>packets-with-no-corefacing-entry
        </packets-with-no-corefacing-entry>
    <packets-with-no-ce-facing-entry>packets-with-no-ce-facing-entry
        </packets-with-no-ce-facing-entry>
    <mac-route-learning-requests>mac-route-learning-requests
        </mac-route-learning-requests>
    <mac-routes-learned>mac-routes-learned</mac-routes-learned>
    <requests-to-learn-an-existing-route>requests-to-learn-an-existing-route
        </requests-to-learn-an-existing-route>

<learning-requests-while-learning-disabled-on-interface>learning-requests-while-learning-
disabled-on-interface
        </learning-requests-while-learning-disabled-on-interface>
    <learning-requests-over-capacity>learning-requests-over-capacity
        </learning-requests-over-capacity>
    <mac-routes-moved>mac-routes-moved</mac-routes-moved>
    <requests-to-move-static-route>requests-to-move-static-route
        </requests-to-move-static-route>
    <mac-route-aging-requests>mac-route-aging-requests</mac-route-aging-requests>
    <mac-routes-aged>mac-routes-aged</mac-routes-aged>
    <bogus-address-in-aging-requests>bogus-address-in-aging-requests
        </bogus-address-in-aging-requests>
    <requests-to-age-static-route>requests-to-age-static-route
        </requests-to-age-static-route>
    <requests-to-re-ageout-aged-route>requests-to-re-ageout-aged-route
        </requests-to-re-ageout-aged-route>
    <requests-involving-multiple-peer-fes>requests-involving-multiple-peer-fes
        </requests-involving-multiple-peer-fes>
    <aging-acks-from-pfe>aging-acks-from-pfe</aging-acks-from-pfe>
    <aging-non-acks-from-pfe>aging-non-acks-from-pfe</aging-non-acks-from-pfe>
    <aging-requests-timed-out-waiting-on-fes>aging-requests-timed-out-waiting-on-fes
        </aging-requests-timed-out-waiting-on-fes>
    <aging-requests-over-max-rate>aging-requests-over-max-rate
        </aging-requests-over-max-rate>
    <errors-finding-peer-fes>errors-finding-peer-fes</errors-finding-peer-fes>
    <unsupported-platform>unsupported-platform</unsupported-platform>
    <packets-dropped-due-to-no-l3-route-table>packets-dropped-due-to-no-l3-route-table
```

```
                    </packets-dropped-due-to-no-l3-route-table>
    <packets-dropped-due-to-no-local-ifl>packets-dropped-due-to-no-local-ifl
                    </packets-dropped-due-to-no-local-ifl>
    <packets-punted>packets-punted</packets-punted>
    <packets-dropped-due-to-no-socket>packets-dropped-due-to-no-socket
                    </packets-dropped-due-to-no-socket>
  </vpls>
</statistics>
```

Description No documentation is available yet.

Contents <aging-acks-from-pfe>—Aging acks from PFE.

<aging-non-acks-from-pfe>—Aging non-acks from PFE.

<aging-requests-over-max-rate>—Aging requests over max-rate.

<aging-requests-timed-out-waiting-on-fes>—Aging requests timed out waiting on FEs.

<bogus-address-in-aging-requests>—Bogus address in aging requests.

<errors-finding-peer-fes>—Errors finding peer FEs.

<learning-requests-over-capacity>—Learning requests over capacity.

<learning-requests-while-learning-disabled-on-interface>—Learning requests while learning disabled on interface.

<mac-route-aging-requests>—MAC route aging requests.

<mac-route-learning-requests>—MAC route learning requests.

<mac-routes-aged>—MAC routes aged.

<mac-routes-learned>—MAC routes learnt.

<mac-routes-moved>—MAC routes moved.

<packets-dropped-due-to-no-l3-route-table>—Packets dropped due to no l3 route table.

<packets-dropped-due-to-no-local-ifl>—Packets dropped due to no local ifl.

<packets-dropped-due-to-no-socket>—Packets dropped due to no socket.

<packets-for-this-host>—Packets-for-this-host.

<packets-punted>—Packets punted.

<packets-with-incorrect-version-number>—Packets with incorrect version number.

<packets-with-no-auxiliary-table>—Packets with no auxiliary table.

<packets-with-no-ce-facing-entry>—Packets with no CE-facing entry.

<packets-with-no-corefacing-entry>—Packets with no corefacing entry.

<packets-with-no-family>—Packets with no family.

<packets-with-no-logical-interface>—Packets with no logical interface.

<packets-with-no-route-table>—Packets with no route table.

<packets-with-size-smaller-than-minimum>—Packets with size smaller than minimum.

<requests-involving-multiple-peer-fes>—Requests involving multiple peer FEs.

<requests-to-age-static-route>—Requests to age static route.

<requests-to-learn-an-existing-route>—Requests to learn an existing route.

<requests-to-move-static-route>—Requests to move static route.

<requests-to-re-ageout-aged-route>—Requests to re-ageout aged route.

<total-packets-received>—Total packets received.

<unsupported-platform>—Unsupported platform.

Summary of Subscribers Response Tags

This section lists JUNOS XML tags that contain operational information about the Subscriber element. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-subscribers. To review the DTD for the tags, see "DTD for Subscribers Response Tags" on page 2499.

<error>

Usage

```
<subscribers-information>
  <error>
    <input-error-message>input-error-message</input-error-message>
  </error>
</subscribers-information>
```

Description No documentation is available yet.

Contents <input-error-message>—Input error message.

<subscriber>

Usage

```
<subscribers-information>
  <subscriber>
    <access-type>access-type</access-type>
    <user-name>user-name</user-name>
    <ip-address>ip-address</ip-address>
    <ip-netmask>ip-netmask</ip-netmask>
    <logical-system>logical-system</logical-system>
    <routing-instance>routing-instance</routing-instance>
    <interface>interface</interface>
    <interface-type>interface-type</interface-type>
    <stacked-vlan-id>stacked-vlan-id</stacked-vlan-id>
    <vlan-id>vlan-id</vlan-id>
    <profile>profile</profile>
    <mac-address>mac-address</mac-address>
    <login-time>login-time</login-time>
    <state>state</state>
    <gw-address>gw-address</gw-address>
    <radius-accounting-id>radius-accounting-id</radius-accounting-id>
    <number-of-subscribers>number-of-subscribers</number-of-subscribers>
    <number-of-active-subscribers>number-of-active-subscribers
                </number-of-active-subscribers>
    <no-information>no-information</no-information>
  </subscriber>
</subscribers-information>
```

Description Active subscriber.

Contents <access-type>—Access type of subscriber.

<gw-address>—DHCP Gateway IP address of subscriber.

<interface>—Interface name of subscriber.

<interface-type>—Type of Interface subscriber is on.

<ip-address>—IP address of subscriber.

<ip-netmask>—IP netmask of subscriber.

<logical-system>—Logical system where the subscriber resides.

<login-time>—Login time of subscriber.

<mac-address>—MAC address of subscriber.

<no-information>—No documentation is available yet.

<number-of-active-subscribers>—Number of active subscribers that match with search criteria.

<number-of-subscribers>—Number of subscribers that match with search criteria.

<profile>—Dynamic profile with which subscriber is activated.

<radius-accounting-id>—Radius Accounting ID of subscriber.

<routing-instance>—Routing instance where the subscriber resides.

<stacked-vlan-id>—Stacked VLAN identifier.

<state>—State of subscriber.

<user-name>—User name of subscriber.

<vlan-id>—VLAN identifier.

<subscribers-information>

Usage

```
<rpc-reply>
  <subscribers-information>
    <subscriber>...</subscriber>
    <error>...</error>
  </subscribers-information>
</rpc-reply>
```

Description Subscribers.

Contents <error>—No documentation is available yet.

<subscriber>—Active subscriber.

Summary of System Process Response Tags

This section lists JUNOS XML tags that contain operational information about system processes. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-process. To review the DTD for the tags, see "DTD for System Process Response Tags" on page 2501.

<command-line-argument>

Usage

```
<command-line-argument-list>
  <command-line-argument>
    <argument-index>argument-index</argument-index>
    <argument>argument</argument>
  </command-line-argument>
</command-line-argument-list>
```

Description No documentation is available yet.

Contents <argument>—Command-line argument.

<argument-index>—Command-line argument index.

<command-line-argument-list>

Usage

```
<process>
  <command-line-argument-list>
    <command-line-argument>...</command-line-argument>
  </command-line-argument-list>
</process>
```

Description List of arguments that were passed to the command.

Contents <command-line-argument>—No documentation is available yet.

<memory-statistics>

Usage

```
<process | memory-statistics-information>
  <memory-statistics>
    <memory-load>memory-load</memory-load>
    <virtual-size>virtual-size</virtual-size>
    <resident-set-size>resident-set-size</resident-set-size>
    <resident-set-before-swap>resident-set-before-swap</resident-set-before-swap>
    <text-size>text-size</text-size>
    <data-size>data-size</data-size>
    <stack-size>stack-size</stack-size>
  </memory-statistics>
</process | memory-statistics-information>
```

Description Memory usage statistics for the process.

Contents

<data-size>—Process data segment size, in kilobytes.

<memory-load>—Percentage of memory used by this process.

<resident-set-before-swap>—Resident set size of the process before last swap, in kilobytes.

<resident-set-size>—Resident set size of the process, in kilobytes.

<stack-size>—Process stack size, in kilobytes.

<text-size>—Process text segment size, in kilobytes.

<virtual-size>—Virtual size of the process, in kilobytes.

<process>

Usage

```
<process-information>
  <process>
    <process-id>process-id</process-id>
    <name>name</name>
    <alias>alias</alias>
    <external-identifier>external-identifier</external-identifier>
    <primary-instance/>
    <login-id>login-id</login-id>
    <start-time>start-time</start-time>
    <parent-process-id>parent-process-id</parent-process-id>
    <process-group-id>process-group-id</process-group-id>
    <command>command</command>
    <command-line-argument-list>...</command-line-argument-list>
    <terminal-device>terminal-device</terminal-device>
    <priority>priority</priority>
    <nice>nice</nice>
    <process-status>process-status</process-status>
    <process-flags>...</process-flags>
    <sleep-information>...</sleep-information>
    <resource-usage>...</resource-usage>
    <memory-statistics>...</memory-statistics>
  </process>
</process-information>
```

Description Information about a running process.

Contents <alias>—Process short name.

<command>—Command being executed.

<command-line-argument-list>—List of arguments that were passed to the command.

<external-identifier>—Process external identifier.

<login-id>—Effective login ID for the process.

<memory-statistics>—Memory usage statistics for the process.

<name>—Process formal name.

<nice>—Niceness value applied to the process priority.

<parent-process-id>—Parent process identifier.

<primary-instance>—Process is JUNOS process primary instance.

<priority>—Priority of the process.

<process-flags>—Process flags.

<process-group-id>—Process group identifier.

<process-id>—Process identifier.

<process-status>—Run status of the process.

<resource-usage>—Resource usage statistics for the process.

<sleep-information>—No documentation is available yet.

<start-time>—UTC time when the process started, in seconds.

<terminal-device>—Terminal device associated with the process.

<process-flags>

Usage

```
<process>
  <process-flags>
    <interruptible/>
    <advisory-lock/>
    <controlling-terminal/>
    <in-memory/>
    <wait-child/>
    <profiling/>
    <select/>
    <set-id-privileges/>
    <system-process/>
    <timing-out/>
    <debug-trace/>
    <debug-wait/>
    <exiting/>
    <exec/>
  </process-flags>
</process>
```

Description Process flags.

Contents <advisory-lock>—Process may hold a POSIX advisory lock.

<controlling-terminal>—Process has a controlling terminal.

<debug-trace>—Debugged process being traced.

<debug-wait>—Debugging process has waited for child.

<exec>—Process called exec.

<exiting>—Process is working on exiting.

<in-memory>—Process is loaded into memory.

<interruptible>—Process is in an interruptible sleep.

<profiling>—Process has started profiling.

<select>—Process is waiting on select system call.

<set-id-privileges>—Process set ID privileges after the last exec.

<system-process>—Process is a system process -- no signals, statistics, or swapping.

<timing-out>—Process is timing out during sleep.

<wait-child>—Process is waiting for child to exec or exit.

<process-information>

Usage

```
<rpc-reply>
  <process-information>
    <scale-information>...</scale-information>
    <process>...</process>
    <system-information>...</system-information>
  </process-information>
</rpc-reply>
```

Description Information about running processes.

Contents <process>—Information about a running process.

<scale-information>—Information about values used in computing scales for this report.

<system-information>—Information about the system.

<resource-usage>

Usage

```
<process>
  <resource-usage>
    <cpu-load>cpu-load</cpu-load>
    <user-time>user-time</user-time>
    <system-time>system-time</system-time>
    <maximum-resident-set>maximum-resident-set</maximum-resident-set>
    <page-reclaims>page-reclaims</page-reclaims>
    <page-faults>page-faults</page-faults>
    <swaps>swaps</swaps>
    <block-input-operation>block-input-operation</block-input-operation>
    <block-output-operation>block-output-operation</block-output-operation>
    <messages-sent>messages-sent</messages-sent>
    <messages-received>messages-received</messages-received>
    <signals>signals</signals>
    <voluntary-context-switch>voluntary-context-switch</voluntary-context-switch>
    <involuntary-context-switch>involuntary-context-switch
                </involuntary-context-switch>
  </resource-usage>
</process>
```

Description Resource usage statistics for the process.

Contents <block-input-operation>—Block input operations by the process.

<block-output-operation>—Block output operations by the process.

<cpu-load>—Percentage of CPU time used by this process.

<involuntary-context-switch>—Involuntary context switches for the process.

<maximum-resident-set>—Maximum resident set size for the process.

<messages-received>—Messages received by the process.

<messages-sent>—Messages sent by the process.

<page-faults>—Page faults incurred by the process.

<page-reclaims>—Page reclaims by the process.

<signals>—Signals received by the process.

<swaps>—Number of process swaps for the process.

<system-time>—System CPU time for the process.

<user-time>—User CPU time for the process.

<voluntary-context-switch>—Voluntary context switches for the process.

<scale-information>

Usage
```
<process-information>
  <scale-information>
    <memory-page-size>memory-page-size</memory-page-size>
    <physical-memory-pages>physical-memory-pages</physical-memory-pages>
  </scale-information>
</process-information>
```

Description Information about values used in computing scales for this report.

Contents <memory-page-size>—Memory page size for platform, in bytes.

<physical-memory-pages>—Maximum number of physical memory pages.

<sleep-information>

Usage
```
<process>
  <sleep-information>
    <reason>reason</reason>
    <address>address</address>
  </sleep-information>
</process>
```

Description No documentation is available yet.

Contents <address>—Sleep address.

<reason>—Reason for sleeping.

<system-cpu-states>

Usage

```
<system-information>
  <system-cpu-states>
    <cpu-total-time>cpu-total-time</cpu-total-time>
    <cpu-user-time>cpu-user-time</cpu-user-time>
    <cpu-user-time-percent>cpu-user-time-percent</cpu-user-time-percent>
    <cpu-nice-time>cpu-nice-time</cpu-nice-time>
    <cpu-nice-time-percent>cpu-nice-time-percent</cpu-nice-time-percent>
    <cpu-system-time>cpu-system-time</cpu-system-time>
    <cpu-system-time-percent>cpu-system-time-percent</cpu-system-time-percent>
    <cpu-interrupts-time>cpu-interrupts-time</cpu-interrupts-time>
    <cpu-interrupts-time-percent>cpu-interrupts-time-percent
                    </cpu-interrupts-time-percent>
    <cpu-idle-time>cpu-idle-time</cpu-idle-time>
    <cpu-idle-time-percent>cpu-idle-time-percent</cpu-idle-time-percent>
  </system-cpu-states>
</system-information>
```

Description Process state information.

Contents <cpu-idle-time>—CPU time spent in idle state.

<cpu-idle-time-percent>—CPU time spent in idle state.

<cpu-interrupts-time>—CPU time spent in interrupts state.

<cpu-interrupts-time-percent>—CPU time spent in interrupts state.

<cpu-nice-time>—CPU time spent in nice state.

<cpu-nice-time-percent>—CPU time spent in nice state.

<cpu-system-time>—CPU time spent in system state.

<cpu-system-time-percent>—CPU time spent in system state.

<cpu-total-time>—Total CPU time spent.

<cpu-user-time>—CPU time spent in user state.

<cpu-user-time-percent>—CPU time spent in user state.

<system-information>

Usage <process-information>
<system-information>
<system-hardware-cpu-architecture>*system-hardware-cpu-architecture*
</system-hardware-cpu-architecture>
<system-hardware-cpu-model>*system-hardware-cpu-model*
</system-hardware-cpu-model>
<system-hardware-cpu-count>*system-hardware-cpu-count*
</system-hardware-cpu-count>
<system-boot-device>*system-boot-device*</system-boot-device>
<system-boot-next-device>*system-boot-next-device*</system-boot-next-device>
<system-hardware-physical-memory>*system-hardware-physical-memory*
</system-hardware-physical-memory>
<system-hardware-user-memory>*system-hardware-user-memory*
</system-hardware-user-memory>
<system-hardware-page-size>*system-hardware-page-size*
</system-hardware-page-size>
<system-virtual-memory-page-size>*system-virtual-memory-page-size*
</system-virtual-memory-page-size>
<system-hardware-page-available>*system-hardware-page-available*
</system-hardware-page-available>
<system-hardware-routing-engine-name>*system-hardware-rout-eng-name*
</system-hardware-routing-engine-name>
<system-hardware-routing-engine-model>*system-hw-rout-eng-model*
</system-hardware-routing-engine-model>
<system-hardware-routing-engine-serial-number>*system-hw-rout-eng-serial-number*
</system-hardware-routing-engine-serial-number>
<system-hardware-routing-engine-other-present/>
<system-hardware-routing-engine-other-alive/>
<system-virtual-memory-swap-enabled/>
<system-virtual-memory-context-switches>*system-virtual-memory-context-switches*
</system-virtual-memory-context-switches>
<system-virtual-memory-trap>*system-virtual-memory-trap*
</system-virtual-memory-trap>
<system-virtual-memory-syscall>*system-virtual-memory-syscall*
</system-virtual-memory-syscall>
<system-virtual-memory-hard-interrupts>*system-virtual-memory-hard-interrupts*
</system-virtual-memory-hard-interrupts>
<system-virtual-memory-soft-interrupts>*system-virtual-memory-soft-interrupts*
</system-virtual-memory-soft-interrupts>
<system-virtual-memory-faults>*system-virtual-memory-faults*
</system-virtual-memory-faults>
<system-virtual-memory-copy-on-write-faults>*system-virtual-mem-copy-on-wr-faults*
</system-virtual-memory-copy-on-write-faults>
<system-virtual-memory-copy-on-write-optimized>*sys-virtual-mem-cpy-on-write-opt*
</system-virtual-memory-copy-on-write-optimized>
<system-virtual-memory-zeroed-pages>*sys-virtual-memory-zeroed-pages*
</system-virtual-memory-zeroed-pages>
<system-virtual-memory-zeroed-pages-optimized>*sys-virtual-mem-zero-pgs-optimized*
</system-virtual-memory-zeroed-pages-optimized>
<system-virtual-memory-swapin>*system-virtual-memory-swapin*
</system-virtual-memory-swapin>
<system-virtual-memory-swapout>*system-virtual-memory-swapout*

```
                </system-virtual-memory-swapout>
        <system-virtual-memory-swapped-in-pages>sys-virtual-mem-swapped-in-pages
                </system-virtual-memory-swapped-in-pages>
        <system-virtual-memory-swapped-out-pages>sys-virtual-memory-swapped-out-pages
                </system-virtual-memory-swapped-out-pages>
        <system-virtual-memory-reactivated-pages>system-virtual-memory-reactivated-pages
                </system-virtual-memory-reactivated-pages>
        <system-virtual-memory-vnode-in>system-virtual-memory-vnode-in
                </system-virtual-memory-vnode-in>
        <system-virtual-memory-vnode-out>system-virtual-memory-vnode-out
                </system-virtual-memory-vnode-out>
        <system-virtual-memory-vnode-page-ins>system-virtual-memory-vnode-page-ins
                </system-virtual-memory-vnode-page-ins>
        <system-virtual-memory-vnode-page-outs>system-virtual-memory-vnode-page-outs
                </system-virtual-memory-vnode-page-outs>
        <system-virtual-memory-pager-wakes>system-virtual-memory-pager-wakes
                </system-virtual-memory-pager-wakes>
        <system-virtual-memory-pager-scans>system-virtual-memory-pager-scans
                </system-virtual-memory-pager-scans>
        <system-virtual-memory-page-count>system-virtual-memory-page-count
                </system-virtual-memory-page-count>
        <system-virtual-memory-free-reserved>system-virtual-memory-free-reserved
                </system-virtual-memory-free-reserved>
        <system-virtual-memory-free-minimum>system-virtual-memory-free-minimum
                </system-virtual-memory-free-minimum>
        <system-virtual-memory-free-pages>system-virtual-memory-free-pages
                </system-virtual-memory-free-pages>
        <system-virtual-memory-wired-pages>system-virtual-memory-wired-pages
                </system-virtual-memory-wired-pages>
        <system-virtual-memory-active-pages>system-virtual-memory-active-pages
                </system-virtual-memory-active-pages>
        <system-virtual-memory-cache-pages>system-virtual-memory-cache-pages
                </system-virtual-memory-cache-pages>
        <system-virtual-memory-cache-pages-minimum>sys-virtual-mem-cache-pages-min
                </system-virtual-memory-cache-pages-minimum>
        <system-virtual-memory-cache-pages-maximum>sys-virtual-mem-cache-pages-max
                </system-virtual-memory-cache-pages-maximum>
        <system-virtual-memory-load-averages>...</system-virtual-memory-load-averages>
        <system-last-pid>system-last-pid</system-last-pid>
        <system-process-counts>...</system-process-counts>
        <system-cpu-states>...</system-cpu-states>
      </system-information>
</process-information>
```

Description Information about the system.

Contents <system-boot-device>—Device the system booted from.

<system-boot-next-device>—Device the system booted from.

<system-cpu-states>—Process state information.

<system-hardware-cpu-architecture>—CPU architecture.

<system-hardware-cpu-count>—Number of active CPUs.

<system-hardware-cpu-model>—CPU model.

<system-hardware-page-available>—Pages of memory available.

<system-hardware-page-size>—System memory page size, in bytes.

<system-hardware-physical-memory>—Physical memory in system, in bytes.

<system-hardware-routing-engine-model>—Routing Engine model.

<system-hardware-routing-engine-name>—Routing Engine name.

<system-hardware-routing-engine-other-alive>—Other Routing Engine is operational.

<system-hardware-routing-engine-other-present>—Other Routing Engine is present.

<system-hardware-routing-engine-serial-number>—Routing Engine serial number.

<system-hardware-user-memory>—Physical memory available to user processes, in bytes.

<system-last-pid>—Last PID assigned.

<system-process-counts>—Number of processes on system.

<system-virtual-memory-active-pages>—Pages recently statistically used by user processes.

<system-virtual-memory-cache-pages>—Pages ready for use or clean.

<system-virtual-memory-cache-pages-maximum>—Maximum cache pages.

<system-virtual-memory-cache-pages-minimum>—Minimum cache pages.

<system-virtual-memory-context-switches>—Number of context switches.

<system-virtual-memory-copy-on-write-faults>—Copy on write page faults.

<system-virtual-memory-copy-on-write-optimized>—Optimized copy on write page faults.

<system-virtual-memory-faults>—Virtual memory page faults.

<system-virtual-memory-free-minimum>—Minimum free pages.

<system-virtual-memory-free-pages>—Free pages.

<system-virtual-memory-free-reserved>—Reserved free pages.

<system-virtual-memory-hard-interrupts>—Number of hardware interrupts.

<system-virtual-memory-load-averages>—Load averages.

<system-virtual-memory-page-count>—Total page count.

<system-virtual-memory-page-size>—Size of page, in bytes.

<system-virtual-memory-pager-scans>—Pager page scans.

<system-virtual-memory-pager-wakes>—Pager wakeup events.

<system-virtual-memory-reactivated-pages>—Re-activated pages.

<system-virtual-memory-soft-interrupts>—Number of software interrupts.

<system-virtual-memory-swap-enabled>—Swapping is enabled.

<system-virtual-memory-swapin>—Swap-in operations.

<system-virtual-memory-swapout>—Swap-out operations.

<system-virtual-memory-swapped-in-pages>—Swapped in pages.

<system-virtual-memory-swapped-out-pages>—Swapped out pages.

<system-virtual-memory-syscall>—Number of system calls.

<system-virtual-memory-trap>—Number of traps.

<system-virtual-memory-vnode-in>—Vnodein operations.

<system-virtual-memory-vnode-out>—Vnodeout operations.

<system-virtual-memory-vnode-page-ins>—Vnode page-ins.

<system-virtual-memory-vnode-page-outs>—Vnode page-outs.

<system-virtual-memory-wired-pages>—Pages fixed in memory.

<system-virtual-memory-zeroed-pages>—Zero filled pages.

<system-virtual-memory-zeroed-pages-optimized>—Optimized zero filled pages.

<system-process-counts>

Usage

```
<system-information>
  <system-process-counts>
    <process-total>process-total</process-total>
    <process-run>process-run</process-run>
    <process-sleep>process-sleep</process-sleep>
    <process-start>process-start</process-start>
    <process-stop>process-stop</process-stop>
    <process-zombie>process-zombie</process-zombie>
  </system-process-counts>
</system-information>
```

Description Number of processes on system.

Contents <process-run>—Running processes.

<process-sleep>—Sleeping processes.

<process-start>—Starting processes.

<process-stop>—Stopped processes.

<process-total>—Total number of processes.

<process-zombie>—Zombie processes.

<system-virtual-memory-load-averages>

Usage

```
<system-information>
  <system-virtual-memory-load-averages>
    <load-average-one-minute>load-average-one-minute</load-average-one-minute>
    <load-average-five-minute>load-average-five-minute</load-average-five-minute>
    <load-average-fifteen-minute>load-average-fifteen-minute
                </load-average-fifteen-minute>
  </system-virtual-memory-load-averages>
</system-information>
```

Description Load averages.

Contents <load-average-fifteen-minute>—Fifteen minute run queue average length.

<load-average-five-minute>—Five minute run queue average length.

<load-average-one-minute>—One minute run queue average length.

Summary of Telephony Gateway Module Response Tags

This section lists JUNOS XML tags that contain operational information about the Telephony Gateway Module, a component that supports voice over IP (VoIP) services on some models of J Series Services Routers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-tgmd. To review the DTD for the tags, see "DTD for Telephony Gateway Module Response Tags" on page 2509.

<dynamic-cac-information>

Usage

```
<tgm-dynamic-cac-list>
  <dynamic-cac-information>
    <dynamic-cac-interface-name>dynamic-cac-interface-name
                </dynamic-cac-interface-name>
    <dynamic-cac-interface-state>dynamic-cac-interface-state
                </dynamic-cac-interface-state>
    <dynamic-cac-activation-priority>dynamic-cac-activation-priority
                </dynamic-cac-activation-priority>
    <dynamic-cac-bbl>dynamic-cac-bbl</dynamic-cac-bbl>
  </dynamic-cac-information>
</tgm-dynamic-cac-list>
```

Description Information about dynamic call admission control.

Contents <dynamic-cac-activation-priority>—Activation priority configured on the interface.

<dynamic-cac-bbl>—Bearer bandwidth limit configured on the interface.

<dynamic-cac-interface-name>—Dynamic call admission control configured interface.

<dynamic-cac-interface-state>—State of the interface.

<media-gateway-controller-configuration>

Usage

```
<tgm-information>
  <media-gateway-controller-configuration>
    <media-gateway-controller>media-gateway-controller</media-gateway-controller>
  </media-gateway-controller-configuration>
</tgm-information>
```

Description Information about a telephony gateway module (TGM) media gateway controller.

Contents <media-gateway-controller>—IPv4 address of the TGM media gateway controller.

<telephony-interface-module-status>

Usage
```
<telephony-interface-module-status-information>
  <telephony-interface-module-status>
    <slot>slot</slot>
    <tim-state>tim-state</tim-state>
    <offline-reason>offline-reason</offline-reason>
  </telephony-interface-module-status>
</telephony-interface-module-status-information>
```

Description Status of the telephony interface modules.

Contents <offline-reason>—Offline reason.

<slot>—Slot number of the telephony interface module.

<tim-state>—No documentation is available yet.

<telephony-interface-module-status-information>

Usage
```
<rpc-reply>
  <telephony-interface-module-status-information>
    <telephony-interface-module-status>...</telephony-interface-module-status>
  </telephony-interface-module-status-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <telephony-interface-module-status>—Status of the telephony interface modules.

<tgm-dsp-capacity-information>

Usage
```
<rpc-reply>
  <tgm-dsp-capacity-information>
    <dsp-capacity>dsp-capacity</dsp-capacity>
  </tgm-dsp-capacity-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <dsp-capacity>—Dsp resources available in the TGM.

<tgm-dynamic-cac-information>

Usage

```
<rpc-reply>
  <tgm-dynamic-cac-information>
    <tgm-reported-bearer-bandwidth-limit>tgm-reported-bearer-bandwidth-limit
                    </tgm-reported-bearer-bandwidth-limit>
    <tgm-dynamic-cac-list>...</tgm-dynamic-cac-list>
  </tgm-dynamic-cac-information>
</rpc-reply>
```

Description Information about dynamic call admission control.

Contents <tgm-dynamic-cac-list>—List of dynamic call admission control configured interfaces.

<tgm-reported-bearer-bandwidth-limit>—Reported bearer bandwidth limit.

<tgm-dynamic-cac-list>

Usage

```
<tgm-dynamic-cac-information>
  <tgm-dynamic-cac-list>
    <dynamic-cac-information>...</dynamic-cac-information>
  </tgm-dynamic-cac-list>
</tgm-dynamic-cac-information>
```

Description List of dynamic call admission control configured interfaces.

Contents <dynamic-cac-information>—Information about dynamic call admission control.

<tgm-information>

Usage

```
<rpc-reply>
  <tgm-information>
    <media-gateway-controller-configuration>...
                    </media-gateway-controller-configuration>
  </tgm-information>
</rpc-reply>
```

Description No documentation is available yet.

Contents <media-gateway-controller-configuration>—Information about a telephony gateway module (TGM) media gateway controller.

Summary of UDP Forwarding Helper Response Tags

This section lists JUNOS XML tags that contain operational information about the User Datagram Protocol (UDP) forwarding helper. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-helper. To review the DTD for the tags, see .“DTD for UDP Forwarding Helper Response Tags” on page 2511.

<helper-statistics-information>

Usage

```
<rpc-reply>
  <helper-statistics-information>
    <helper-statistics-service-information>...
                    </helper-statistics-service-information>
  </helper-statistics-information>
</rpc-reply>
```

Description Port forwarding helper statistics.

Contents <helper-statistics-service-information>—Port forwarding helper statistics for a particular service.

<helper-statistics-service-information>

Usage

```
<helper-statistics-information>
  <helper-statistics-service-information>
    <service-name>service-name</service-name>
    <received-packets>received-packets</received-packets>
    <forwarded-packets>forwarded-packets</forwarded-packets>
    <dropped-packets>dropped-packets</dropped-packets>
    <dropped-packets-nointerface>dropped-packets-nointerface
                </dropped-packets-nointerface>
    <dropped-packets-nortinst>dropped-packets-nortinst</dropped-packets-nortinst>
    <dropped-packets-badread>dropped-packets-badread</dropped-packets-badread>

<dropped-packets-badsend>dropped-packets-badsend</dropped-packets-badsend>
    <dropped-packets-badaddr>dropped-packets-badaddr</dropped-packets-badaddr>
    <dropped-packets-nolocaladdr>dropped-packets-nolocaladdr
                </dropped-packets-nolocaladdr>
    <dropped-packets-noroute>dropped-packets-noroute</dropped-packets-noroute>
  </helper-statistics-service-information>
</helper-statistics-information>
```

Description Port forwarding helper statistics for a particular service.

Contents <dropped-packets>—Number of packets dropped.

<dropped-packets-badaddr>—Number of packets dropped because of an invalid server address.

<dropped-packets-badread>—Number of packets dropped because of an error during the packet read.

<dropped-packets-badsend>—Number of packets dropped because of an error during the packet send.

<dropped-packets-nointerface>—Number of packets dropped because of no interface.

<dropped-packets-nolocaladdr>—Number of packets dropped because of no valid local address.

<dropped-packets-noroute>—Number of packets dropped because of no route to server/client.

<dropped-packets-nortinst>—Number of packets dropped because of no routing instance.

<forwarded-packets>—Number of packets forwarded.

<received-packets>—Number of packets received.

<service-name>—Name of this service.

Summary of Virtual Router Redundancy Protocol Response Tags

This section lists JUNOS XML tags that contain operational information about the Virtual Router Redundancy Protocol (VRRP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-vrrpd. To review the DTD for the tags, see "DTD for Virtual Router Redundancy Protocol Response Tags" on page 2513.

<active-inherit>

Usage

```
<vrrp-interface>
  <active-inherit>
    <vrrp-mode>vrrp-mode</vrrp-mode>
    <active-node>active-node</active-node>
    <active-group>active-group</active-group>
    <accept-data-mode>accept-data-mode</accept-data-mode>
    <vip-count>vip-count</vip-count>
    <vip>vip</vip>
    <active-router-ip>active-router-ip</active-router-ip>
    <virtual-mac>virtual-mac</virtual-mac>
  </active-inherit>
</vrrp-interface>
```

Description Display active-inherit related parameters.

Contents <accept-data-mode>—Accept packets destined for the virtual IP address.

<active-group>—VRRP active group .

<active-node>—VRRP active node information.

<active-router-ip>—IP address of the interface that is acting as the active.

<vip>—List of virtual IP addresses configured on the interface.

<vip-count>—Number of virtual IP addresses configured on the interface.

<virtual-mac>—MAC address associated with the virtual IP address.

<vrrp-mode>—VRRP mode information.

<bandwidth>

Usage

```
<vrrp-interface | track-vrrpd-interface>
  <bandwidth>
    <bandwidth-threshold>bandwidth-threshold</bandwidth-threshold>
    <bandwidth-priority-cost>bandwidth-priority-cost</bandwidth-priority-cost>
    <bandwidth-active>bandwidth-active</bandwidth-active>
    <priority-down-status>priority-down-status</priority-down-status>
    <priority-cost>priority-cost</priority-cost>
    <priority-active>priority-active</priority-active>
  </bandwidth>
</vrrp-interface | track-vrrpd-interface>
```

Description Display bandwidth parameters.

Contents <bandwidth-active>—Check if threshold is active for a given tracked interface.

<bandwidth-priority-cost>—Cost to reduce if tracked interface's bandwidth drops beyond threshold.

<bandwidth-threshold>—Threshold for the tracked interface.

<priority-active>—Display if priority is active(when down-priority cost > 0).

<priority-cost>—The value subtracted from the configured VRRP priority.

<priority-down-status>—Display the status when the interface is down.

<group-vrrp-pdu-error-statistics>

Usage
```
<vrrp-interface>
  <group-vrrp-pdu-error-statistics>
    <bad-authentication-type-received>bad-authentication-type-received
                </bad-authentication-type-received>
    <bad-password-received>bad-password-received</bad-password-received>
    <bad-md5-digest-received>bad-md5-digest-received</bad-md5-digest-received>
    <bad-advertisement-timer-received>bad-advertisement-timer-received
                </bad-advertisement-timer-received>
    <bad-vip-count-received>bad-vip-count-received</bad-vip-count-received>
    <bad-vipaddr-received>bad-vipaddr-received</bad-vipaddr-received>
  </group-vrrp-pdu-error-statistics>
</vrrp-interface>
```

Description Errored statistics for the VRRP group.

Contents <bad-advertisement-timer-received>—Number of invalid advertisments timers recieved from VRRP PDUs.

<bad-authentication-type-received>—Number of VRRP PDUs received with an invalid authentication type.

<bad-md5-digest-received>—Number of invalid digest received from VRRP PDUs.

<bad-password-received>—Number of VRRP PDUs received with an invalid password.

<bad-vip-count-received>—Number of invalid virtual IP count recevied from VRRP PDUs.

<bad-vipaddr-received>—Number of invalid virtual IP addresses received from VRRP PDUs.

<group-vrrp-pdu-statistics>

Usage
```
<vrrp-interface>
  <group-vrrp-pdu-statistics>
    <advertisement-sent>advertisement-sent</advertisement-sent>
    <advertisement-received>advertisement-received</advertisement-received>
  </group-vrrp-pdu-statistics>
</vrrp-interface>
```

Description Number of VRRP advertisements sent and received by the group.

Contents <advertisement-received>—Number of VRRP advertisement PDUs received from an interface.

<advertisement-sent>—Number of VRRP advertisement that the interface has transmitted.

<group-vrrp-state-transition-statistics>

Usage

```
<vrrp-interface>
  <group-vrrp-state-transition-statistics>
    <idle-master-transitions>idle-master-transitions</idle-master-transitions>
    <idle-backup-transitions>idle-backup-transitions</idle-backup-transitions>
    <backup-master-transitions>backup-master-transitions
                </backup-master-transitions>
    <master-backup-transitions>master-backup-transitions
                </master-backup-transitions>
  </group-vrrp-state-transition-statistics>
</vrrp-interface>
```

Description State transition statistics for the VRRP group.

Contents <backup-master-transitions>—VRRP instance transitioned from the backup to the master state.

<idle-backup-transitions>—VRRP instances transitioned from the idle to the backup state.

<idle-master-transitions>—VRRP instances transitioned from the idle to the master state.

<master-backup-transitions>—VRRP instances transitioned from the master to the backup state.

<preempt-hold>

Usage

```
<vrrp-interface>
  <preempt-hold>
    <preempt>preempt</preempt>
    <preempt-hold-time>preempt-hold-time</preempt-hold-time>
    <accept-data-mode>accept-data-mode</accept-data-mode>
    <vip-count>vip-count</vip-count>
    <vip>vip</vip>
  </preempt-hold>
</vrrp-interface>
```

Description Display preempt related parameters.

Contents <accept-data-mode>—Accept packets destined for the virtual IP address.

<preempt>—Allow the master router to be preempted.

<preempt-hold-time>—Seconds before a backup router preempts the master router.

<vip>—List of virtual IP addresses configured on the interface.

<vip-count>—Number of virtual IP addresses configured on the interface.

<track-route-entry>

Usage

```
<vrrp-interface>
  <track-route-entry>
    <route-addr>route-addr</route-addr>
    <route-state>route-state</route-state>
    <route-priority>route-priority</route-priority>
    <interface>interface</interface>
    <group>group</group>
    <configured-priority>configured-priority</configured-priority>
    <current-priority>current-priority</current-priority>
    <vrrp-state>vrrp-state</vrrp-state>
  </track-route-entry>
</vrrp-interface>
```

Description Route Tracking entry table.

Contents <configured-priority>—Priority configured to track an interface of a virtual router.

<current-priority>—The current VRRP priority for the VRID.

<group>—Identifies the VRRP group.(0-255).

<interface>—Name of the logical interface.

<route-addr>—IP route to be tracked.

<route-priority>—Based on the tracked IP route state changes VRRP priority.

<route-state>—State of an IP route or the reachability of a route.

<vrrp-state>—VRRP state information.

<track-route-node-information>

Usage

```
<vrrp-interface>
  <track-route-node-information>
    <route-addr>route-addr</route-addr>
    <route-instance>route-instance</route-instance>
    <route-state>route-state</route-state>
    <route-priority>route-priority</route-priority>
  </track-route-node-information>
</vrrp-interface>
```

Description Display route tracking details.

Contents <route-addr>—IP route to be tracked.

<route-instance>—Route tracking instance(value is Default).

<route-priority>—Based on the tracked IP route state changes VRRP priority.

<route-state>—State of an IP route or the reachability of a route.

<track-vrrpd-interface>

Usage

```
<vrrp-interface>
  <track-vrrpd-interface>
    <tracked-interface>tracked-interface</tracked-interface>
    <interface-state>interface-state</interface-state>
    <interface-speed>interface-speed</interface-speed>
    <current-priority-cost>current-priority-cost</current-priority-cost>
    <bandwidth>...</bandwidth>
  </track-vrrpd-interface>
</vrrp-interface>
```

Description Display VRRP interface tracking details.

Contents <bandwidth>—Display bandwidth parameters.

<current-priority-cost>—Current cost to lower the priority of the VRRP master.

<interface-speed>—The speed on an physical interface.

<interface-state>—State of the interface.

<tracked-interface>—VRRP tracked name and unit number.

<vrrp-information>

Usage

```
<rpc-reply>
  <vrrp-information>
    <vrrp-interface>...</vrrp-interface>
  </vrrp-information>
</rpc-reply>
```

Description Display vrrp information.

Contents <vrrp-interface>—Describes vrrp interface.

<vrrp-interface>

Usage

```
<vrrp-information>
  <vrrp-interface>
    <groups>groups</groups>
    <active>active</active>
    <physical-interface>physical-interface</physical-interface>
    <interface>interface</interface>
    <address>address</address>
    <interface-state>interface-state</interface-state>
    <group>group</group>
    <vrrp-state>vrrp-state</vrrp-state>
    <timer-name>timer-name</timer-name>
    <timer-value>timer-value</timer-value>
    <local-interface-address>local-interface-address</local-interface-address>
    <vrrp-vlan>...</vrrp-vlan>
    <bandwidth>...</bandwidth>
    <group-vrrp-pdu-statistics>...</group-vrrp-pdu-statistics>
    <group-vrrp-pdu-error-statistics>...</group-vrrp-pdu-error-statistics>
    <group-vrrp-state-transition-statistics>...
                </group-vrrp-state-transition-statistics>
    <preempt-hold>...</preempt-hold>
    <virtual-ip-address>virtual-ip-address</virtual-ip-address>
    <unit>unit</unit>
    <index>index</index>
    <interface-index>interface-index</interface-index>
    <snmp-interface-index>snmp-interface-index</snmp-interface-index>
    <vrrp-traps>vrrp-traps</vrrp-traps>
    <group-priority>group-priority</group-priority>
    <advertisement-interval>advertisement-interval</advertisement-interval>
    <authentication-type>authentication-type</authentication-type>
    <delay-threshold>delay-threshold</delay-threshold>
    <computed-send-rate>computed-send-rate</computed-send-rate>
    <preempt>preempt</preempt>
    <accept-data-mode>accept-data-mode</accept-data-mode>
    <vip-count>vip-count</vip-count>
    <vip>vip</vip>
    <dead-timer>dead-timer</dead-timer>
    <master-priority>master-priority</master-priority>
    <master-router-ip>master-router-ip</master-router-ip>
    <active-router-ip>active-router-ip</active-router-ip>
    <master-router>master-router</master-router>
    <router-ip>router-ip</router-ip>
    <virtual-router-uptime>virtual-router-uptime</virtual-router-uptime>
    <master-router-uptime>master-router-uptime</master-router-uptime>
    <virtual-mac>virtual-mac</virtual-mac>
    <tracking>tracking</tracking>
    <preempt-hold-time>preempt-hold-time</preempt-hold-time>
    <current-priority>current-priority</current-priority>
    <configured-priority>configured-priority</configured-priority>
    <priority-hold-time>priority-hold-time</priority-hold-time>
    <remaining-time>remaining-time</remaining-time>
    <pending-priority>pending-priority</pending-priority>
    <interface-tracking-state>interface-tracking-state</interface-tracking-state>
```

```
    <interface-count>interface-count</interface-count>
    <route-tracking-state>route-tracking-state</route-tracking-state>
    <route-count>route-count</route-count>
    <interface-speed>interface-speed</interface-speed>
    <current-priority-cost>current-priority-cost</current-priority-cost>
    <tracked-interface>tracked-interface</tracked-interface>
    <track-route-node-information>...</track-route-node-information>
    <track-vrrpd-interface>...</track-vrrpd-interface>
    <track-route-entry>...</track-route-entry>
    <vrrp-message>...</vrrp-message>
    <invalid-ipah-next-type-received>invalid-ipah-next-type-received
            </invalid-ipah-next-type-received>
    <invalid-vrrp-ttl-value-received>invalid-vrrp-ttl-value-received
            </invalid-vrrp-ttl-value-received>
    <invalid-vrrp-version-received>invalid-vrrp-version-received
            </invalid-vrrp-version-received>
    <invalid-vrrp-pdu-type-received>invalid-vrrp-pdu-type-received
            </invalid-vrrp-pdu-type-received>
    <invalid-vrrp-authentication-type-received>invalid-vrrp-authentication-type-received
            </invalid-vrrp-authentication-type-received>
    <invalid-vrrp-ip-count-received>invalid-vrrp-ip-count-received
            </invalid-vrrp-ip-count-received>
    <invalid-vrrp-checksum-received>invalid-vrrp-checksum-received
            </invalid-vrrp-checksum-received>
    <advertisement-timer>advertisement-timer</advertisement-timer>
    <packets-received>packets-received</packets-received>
    <no-group-match-received>no-group-match-received</no-group-match-received>
    <advertisement-sent>advertisement-sent</advertisement-sent>
    <advertisement-received>advertisement-received</advertisement-received>
    <vrrp-mode>vrrp-mode</vrrp-mode>
    <active-node>active-node</active-node>
    <active-group>active-group</active-group>
    <active-inherit>...</active-inherit>
  </vrrp-interface>
</vrrp-information>
```

Description Describes vrrp interface.

Contents <accept-data-mode>—Accept packets destined for the virtual IP address.

<active>—Total number of VRRP groups that are active.

<active-group>—VRRP active group .

<active-inherit>—Display active-inherit related parameters.

<active-node>—VRRP active node information.

<active-router-ip>—IP address of the interface that is acting as the active.

<address>—Address of the physical interface.

<advertisement-interval>—Advertisement interval for sending advertisement packets.

<advertisement-received>—Number of VRRP advertisement PDUs received from an interface.

<advertisement-sent>—Number of VRRP advertisement that the interface has transmitted.

<advertisement-timer>—How long, in seconds, until the advertisement timer expires.

<authentication-type>—Configured VRRP authentication type(none, simple, or md5).

<bandwidth>—Display bandwidth parameters.

<computed-send-rate>—The advertisement send rate in packets per second.

<configured-priority>—Priority configured to track an interface of a virtual router.

<current-priority>—The current VRRP priority for the VRID.

<current-priority-cost>—Current cost to lower the priority of the VRRP master.

<dead-timer>—How long until the Master Is Dead.

<delay-threshold>—Number of advertisemnt timer drifted beyond threshold.

<group>—Identifies the VRRP group.(0-255).

<group-priority>—Value used to elect the master virtual router in the VRRP group.

<group-vrrp-pdu-error-statistics>—Errored statistics for the VRRP group.

<group-vrrp-pdu-statistics>—Number of VRRP advertisements sent and received by the group.

<group-vrrp-state-transition-statistics>—State transition statistics for the VRRP group.

<groups>—Total number of VRRP groups configured on the interface.

<index>—Physical interface's index number(initialization sequence).

<interface>—Name of the logical interface.

<interface-count>—Number of tracked interfaces.

<interface-index>—Interface index.

<interface-speed>—The speed on an physical interface.

<interface-state>—State of the interface.

<interface-tracking-state>—State of the interface being tracked.

<invalid-ipah-next-type-received>—Number of packets received that use IPAH.

<invalid-vrrp-authentication-type-received>—Packets received with invalid VRRP

authentication type.

<invalid-vrrp-checksum-received>—Packets received with invalid VRRP checksum.

<invalid-vrrp-ip-count-received>—Number of packets received whose VRRP IP count exceeds 8.

<invalid-vrrp-pdu-type-received>—Number of packets received whose VRRP PDU type is not 1.

<invalid-vrrp-ttl-value-received>—Number of packets received whose IP TTL value is not 255.

<invalid-vrrp-version-received>—Number of packets received whose VRRP version is not 2.

<local-interface-address>—Local interface address.

<master-priority>—Priority value of the router acting as the master.

<master-router>—IP address of the interface that is acting as the master.

<master-router-ip>—IP address of the interface that is acting as the master.

<master-router-uptime>—How long, in seconds, that the master router has been up.

<no-group-match-received>—Packets received for nonexistant VRRP groups on the interface.

<packets-received>—Number of VRRP packets received for VRRP groups on the interface.

<pending-priority>—Priority to decrease if incoming VRRP packet priority is higher.

<physical-interface>—Name of the physical interface.

<preempt>—Allow the master router to be preempted.

<preempt-hold>—Display preempt related parameters.

<preempt-hold-time>—Seconds before a backup router preempts the master router.

<priority-hold-time>—Time that must elapse between dynamic priority changes.

<remaining-time>—Predicts the time remaining before it becomes master.

<route-count>—Number of tracked IP routes.

<route-tracking-state>—State of the route being tracked.

<router-ip>—IP address of the router.

<snmp-interface-index>—SNMP index number for the physical interface.

<timer-name>—VRRP timer name.

<timer-value>—VRRP timer information.

<track-route-entry>—Route Tracking entry table.

<track-route-node-information>—Display route tracking details.

<track-vrrpd-interface>—Display VRRP interface tracking details.

<tracked-interface>—VRRP tracked name and unit number.

<tracking>—Whether tracking is enabled or disabled.

<unit>—Logical unit number.

<vip>—List of virtual IP addresses configured on the interface.

<vip-count>—Number of virtual IP addresses configured on the interface.

<virtual-ip-address>—Virtual Router IP Address .

<virtual-mac>—MAC address associated with the virtual IP address.

<virtual-router-uptime>—How long, in seconds, that the virtual router has been up.

<vrrp-message>—Display vrrp message.

<vrrp-mode>—VRRP mode information.

<vrrp-state>—VRRP state information.

<vrrp-traps>—Status of VRRP traps: Enabled or Disabled.

<vrrp-vlan>—Display vrrp when configured on vlan.

<vrrp-interface-profile>

Usage

```
<vrrp-profile-statistics>
  <vrrp-interface-profile>
    <interface>interface</interface>
    <unit>unit</unit>
    <group>group</group>
    <advertisement-timer>advertisement-timer</advertisement-timer>
    <delay>delay</delay>
  </vrrp-interface-profile>
</vrrp-profile-statistics>
```

Description Profile of vrrp interface.

Contents <advertisement-timer>—How long, in seconds, until the advertisement timer expires.

<delay>—Maximum % age advertisement interval delay.

<group>—Identifies the VRRP group.(0-255).

<interface>—Name of the logical interface.

<unit>—Logical unit number.

<vrrp-message>

Usage

```
<vrrp-interface>
  <vrrp-message>
    <message>message</message>
  </vrrp-message>
</vrrp-interface>
```

Description Display vrrp message.

Contents <message>—Message to be displayed in case of error conditions.

<vrrp-profile-statistics>

Usage

```
<rpc-reply>
  <vrrp-profile-statistics>
    <vrrp-interface-profile>...</vrrp-interface-profile>
    <parse-time>parse-time</parse-time>
    <delay-violations>delay-violations</delay-violations>
    <delay-violations-rate>delay-violations-rate</delay-violations-rate>
    <peak-delay-violations-rate>peak-delay-violations-rate
                </peak-delay-violations-rate>
    <missed-three-consecutive-send>missed-three-consecutive-send
                </missed-three-consecutive-send>
    <send-rate>send-rate</send-rate>
    <peak-send-rate>peak-send-rate</peak-send-rate>
    <receive-rate>receive-rate</receive-rate>
    <peak-receive-rate>peak-receive-rate</peak-receive-rate>
    <expirations>expirations</expirations>
    <expiration-rate>expiration-rate</expiration-rate>
    <peak-expiration-rate>peak-expiration-rate</peak-expiration-rate>
  </vrrp-profile-statistics>
</rpc-reply>
```

Description Vrrp profile statistics.

Contents

<delay-violations>—Many times advertisement delay was violated.

<delay-violations-rate>—Advertisement timer drift beyond threshold in the last second.

<expiration-rate>—Expired dead timer per second.

<expirations>—Expired dead timer count.

<missed-three-consecutive-send>—The adv timer delayed beyond the maximum to become master.

<parse-time>—Maximum configuration time.

<peak-delay-violations-rate>—Advertisment delay drift per second.

<peak-expiration-rate>—Peak expiration dead timer per second.

<peak-receive-rate>—Peak advertisement receive rate.

<peak-send-rate>—Peak advertisment send rate.

<receive-rate>—Advertisement packets received per second.

<send-rate>—Advertisement packets send per second.

<vrrp-interface-profile>—Profile of vrrp interface.

<vrrp-vlan>

Usage

```
<vrrp-interface>
  <vrrp-vlan>
    <physical-interface>physical-interface</physical-interface>
    <unit>unit</unit>
    <vlan-id>vlan-id</vlan-id>
    <vlan-tag>vlan-tag</vlan-tag>
    <vlan-address>vlan-address</vlan-address>
  </vrrp-vlan>
</vrrp-interface>
```

Description Display vrrp when configured on vlan.

Contents <physical-interface>—Name of the physical interface.

<unit>—Logical unit number.

<vlan-address>—Virtual Lan IP address and mask.

<vlan-id>—A valid VLAN identifier.

<vlan-tag>—VLAN tag ID for a logical interface.

Summary of X.509 Certificate Response Tags

This section lists JUNOS XML tags that contain operational information about X.509 certificates. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-x509-certificate. To review the DTD for the tags, see "DTD for X.509 Certificate Response Tags" on page 2519.

<alternate-subject-list>

Usage
```
<x509-certificate-info>
  <alternate-subject-list>
    <alternate-subject>alternate-subject</alternate-subject>
  </alternate-subject-list>
</x509-certificate-info>
```

Description No documentation is available yet.

Contents <alternate-subject>—Series of alternate subject in X.509 certificate.

<auto-re-enrollment>

Usage
```
<x509-certificate-info>
  <auto-re-enrollment>
    <auto-re-enrollment-status>auto-re-enrollment-status
                </auto-re-enrollment-status>
    <auto-re-enrollment-next-trigger-time>auto-re-enrollment-next-trigger-time
                </auto-re-enrollment-next-trigger-time>
  </auto-re-enrollment>
</x509-certificate-info>
```

Description No documentation is available yet.

Contents <auto-re-enrollment-next-trigger-time>—Auto-re-enrollment next trigger time.

<auto-re-enrollment-status>—Auto-re-enrollment information.

<crl-issuer-alternate-subject-list>

Usage
```
<x509-crl-information>
  <crl-issuer-alternate-subject-list>
    <crl-issuer-alternate-subject>crl-issuer-alternate-subject
                </crl-issuer-alternate-subject>
  </crl-issuer-alternate-subject-list>
</x509-crl-information>
```

Description No documentation is available yet.

Contents <crl-issuer-alternate-subject>—One or more alternate subject names for CRL issuer.

<crl-issuer-detail>

Usage

```
<x509-crl-information>
  <crl-issuer-detail>
    <distinguished-name>...</distinguished-name>
  </crl-issuer-detail>
</x509-crl-information>
```

Description Distinguished name of CRL issuer.

Contents <distinguished-name>—No documentation is available yet.

<crl-revocation-list>

Usage

```
<x509-crl-information>
  <crl-revocation-list>
    <revoked-cert-serial-number>revoked-cert-serial-number
                    </revoked-cert-serial-number>
    <crl-revocation-date>crl-revocation-date</crl-revocation-date>
  </crl-revocation-list>
</x509-crl-information>
```

Description No documentation is available yet.

Contents <crl-revocation-date>—Revocation date.

<revoked-cert-serial-number>—Serial number of revoked certificate.

<crl-validity>

Usage

```
<x509-crl-information>
  <crl-validity>
    <effective-date>effective-date</effective-date>
    <next-update>next-update</next-update>
  </crl-validity>
</x509-crl-information>
```

Description Information about validity period for X.509 certificate revocation list.

Contents <effective-date>—Effective date of CRL.

<next-update>—Next update of CRL.

<distinguished-name>

Usage

```
<issuer | subject | crl-issuer-detail>
  <distinguished-name>
    <organization-name>organization-name</organization-name>
    <organizational-unit-name>organizational-unit-name</organizational-unit-name>
    <country-name>country-name</country-name>
    <state-or-province-name>state-or-province-name</state-or-province-name>
    <locality-name>locality-name</locality-name>
    <common-name>common-name</common-name>
    <email-address>email-address</email-address>
    <domain-component>domain-component</domain-component>
  </distinguished-name>
</issuer | subject | crl-issuer-detail>
```

Description No documentation is available yet.

Contents <common-name>—Common name.

<country-name>—Country name.

<domain-component>—Domain component.

<email-address>—E-mail address.

<locality-name>—Locality.

<organization-name>—Organization.

<organizational-unit-name>—Organization unit.

<state-or-province-name>—State.

<distribution-crl-list>

Usage

```
<x509-certificate-info>
  <distribution-crl-list>
    <distribution-crl>distribution-crl</distribution-crl>
  </distribution-crl-list>
</x509-certificate-info>
```

Description Information about one or more distribution certificate revocation lists.

Contents <distribution-crl>—Information about a distribution CRL.

<fingerprint>

Usage

```
<x509-certificate-info>
  <fingerprint>
    <fingerprint-hash-algorithm>fingerprint-hash-algorithm
                    </fingerprint-hash-algorithm>
    <fingerprint-content>fingerprint-content</fingerprint-content>
  </fingerprint>
</x509-certificate-info>
```

Description Fingerprint.

Contents <fingerprint-content>—No documentation is available yet.

<fingerprint-hash-algorithm>—No documentation is available yet.

<issue-info>

Usage

```
<x509-certificate-info>
  <issue-info>
    <recipient>recipient</recipient>
    <issued-by>issued-by</issued-by>
  </issue-info>
</x509-certificate-info>
```

Description No documentation is available yet.

Contents <issued-by>—No documentation is available yet.

<recipient>—No documentation is available yet.

<issuer>

Usage

```
<x509-certificate-info>
  <issuer>
    <distinguished-name>...</distinguished-name>
  </issuer>
</x509-certificate-info>
```

Description Identifies the CA that issued certificate.

Contents <distinguished-name>—No documentation is available yet.

<key-usage-list>

Usage

```
<x509-certificate-info>
  <key-usage-list>
    <key-usage>key-usage</key-usage>
  </key-usage-list>
</x509-certificate-info>
```

Description No documentation is available yet.

Contents <key-usage>—Purpose for which X.509 key is used.

<public-key>

Usage
```
<x509-certificate-info>
  <public-key>
    <public-key-algorithm>public-key-algorithm</public-key-algorithm>
    <public-key-length>public-key-length</public-key-length>
    <public-key-verification-status>public-key-verification-status
                </public-key-verification-status>
  </public-key>
</x509-certificate-info>
```

Description Information about an X.509 public key.

Contents <public-key-algorithm>—Algorithm used for creating the subject public key.

<public-key-length>—Length of X.509 public.

<public-key-verification-status>—Verification status of X.509 public key.

<public-key-contents-list>

Usage
```
<x509-certificate-info>
  <public-key-contents-list>
    <key-contents>key-contents</key-contents>
  </public-key-contents-list>
</x509-certificate-info>
```

Description No documentation is available yet.

Contents <key-contents>—Contents of an X.509 public key.

<serial-number-list>

Usage
```
<x509-certificate-info>
  <serial-number-list>
    <serial-number-x509>serial-number-x509</serial-number-x509>
  </serial-number-list>
</x509-certificate-info>
```

Description Serial numbers of one or more X.509 certificate.

Contents <serial-number-x509>—Serial number of an X.509 certificate.

<subject>

Usage
```
<x509-certificate-info>
  <subject>
    <distinguished-name>...</distinguished-name>
  </subject>
</x509-certificate-info>
```

Description Information about certificate owner.

Contents <distinguished-name>—No documentation is available yet.

<validity>

Usage

```
<x509-certificate-info>
  <validity>
    <not-before>not-before</not-before>
    <not-after>not-after</not-after>
  </validity>
</x509-certificate-info>
```

Description Information about validity period for X.509 certificate.

Contents <not-after>—End date of validity period.

<not-before>—Start date of validity period.

<x509-certificate-add-results>

Usage

```
<rpc-reply>
  <x509-certificate-add-results>
    <x509-certificate-add-success/>
    <x509-certificate-info>...</x509-certificate-info>
  </x509-certificate-add-results>
</rpc-reply>
```

Description No documentation is available yet.

Contents <x509-certificate-add-success>—Certificate added successfully.

<x509-certificate-info>—Detailed information about an X.509 certificate.

<x509-certificate-info>

Usage

```
<x509-certificate-info-list | x509-certificate-add-results>
  <x509-certificate-info>
    <issue-info>...</issue-info>
    <serial-number-list>...</serial-number-list>
    <public-key>...</public-key>
    <fingerprint>...</fingerprint>
    <public-key-contents-list>...</public-key-contents-list>
    <alternate-subject-list>...</alternate-subject-list>
    <key-usage-list>...</key-usage-list>
    <distribution-crl-list>...</distribution-crl-list>
    <signature-algorithm>signature-algorithm</signature-algorithm>
    <identifier>identifier</identifier>
    <validity>...</validity>
    <version>version</version>
    <auto-re-enrollment>...</auto-re-enrollment>
    <certificate-type>certificate-type</certificate-type>
    <status>status</status>
    <issuer>...</issuer>
    <subject>...</subject>
  </x509-certificate-info>
</x509-certificate-info-list | x509-certificate-add-results>
```

Description Detailed information about an X.509 certificate.

Contents

<alternate-subject-list>—No documentation is available yet.

<auto-re-enrollment>—No documentation is available yet.

<certificate-type>—X.509 certificate type.

<distribution-crl-list>—Information about one or more distribution certificate revocation lists.

<fingerprint>—Fingerprint.

<identifier>—Certificate identifier.

<issue-info>—No documentation is available yet.

<issuer>—Identifies the CA that issued certificate.

<key-usage-list>—No documentation is available yet.

<public-key>—Information about an X.509 public key.

<public-key-contents-list>—No documentation is available yet.

<serial-number-list>—Serial numbers of one or more X.509 certificate.

<signature-algorithm>—Algorithm used by the CA to sign the certificate.

<status>—No documentation is available yet.

<subject>—Information about certificate owner.

<validity>—Information about validity period for X.509 certificate.

<version>—Certificate version.

<x509-certificate-info-list>

Usage

```
<rpc-reply>
  <x509-certificate-info-list>
    <x509-certificate-info>...</x509-certificate-info>
  </x509-certificate-info-list>
</rpc-reply>
```

Description No documentation is available yet.

Contents <x509-certificate-info>—Detailed information about an X.509 certificate.

<x509-crl-information>

Usage

```
<rpc-reply>
  <x509-crl-information>
    <crl-number>crl-number</crl-number>
    <crl-revocation-list>...</crl-revocation-list>
    <crl-validity>...</crl-validity>
    <crl-version>crl-version</crl-version>
    <crl-issuer>crl-issuer</crl-issuer>
    <identifier>identifier</identifier>
    <crl-issuer-alternate-subject-list>...</crl-issuer-alternate-subject-list>
    <crl-issuer-detail>...</crl-issuer-detail>
  </x509-crl-information>
</rpc-reply>
```

Description Detailed information about X.509 certificate revocation list.

Contents <crl-issuer>—CRL issuer name.

<crl-issuer-alternate-subject-list>—No documentation is available yet.

<crl-issuer-detail>—Distinguished name of CRL issuer.

<crl-number>—CRL sequence number.

<crl-revocation-list>—No documentation is available yet.

<crl-validity>—Information about validity period for X.509 certificate revocation list.

<crl-version>—CRL version.

<identifier>—Certificate identifier.

Part 2

JUNOS XML Document Type Definitions

The chapters in this section contain the document type definitions (DTDs) for the JUNOS Extensible Markup Language (XML) tag elements that contain information about various routing platform functions:

- DTD for Accounting Response Tags on page 1977
- DTD for Adaptive Services Response Tags on page 1989
- DTD for Alarm Response Tags on page 2029
- DTD for APS Response Tags on page 2039
- DTD for ARP Response Tags on page 2041
- DTD for Authentication Response Tags on page 2043
- DTD for Autoinstallation Response Tags on page 2047
- DTD for BFD Response Tags on page 2049
- DTD for Connectivity Fault Management Response Tags on page 2053
- DTD for Chassis Response Tags on page 2063
- DTD for Class-of-Service Response Tags on page 2083
- "DTD for Database Replication Response Tags" on page 2097
- DTD for Data Link Switching Response Tags on page 2099
- DTD for DHCP Response Tags on page 2105
- DTD for DHCP Server Response Tags on page 2113
- DTD for DHCP Relay Response Tags on page 2109
- DTD for Dialer Response Tags on page 2117
- "DTD for Diameter Response Tags" on page 2121
- DTD for Dynamic Configuration Response Tags on page 2125

- DTD for Dynamic Flow Capture Response Tags on page 2131
- DTD for Firewall Filter Response Tags on page 2137
- DTD for Graceful Switchover Response Tags on page 2141
- DTD for Interface Metadata Response Tags on page 2213
- DTD for Interface Response Tags on page 2143
- DTD for IPSec Response Tags on page 2215
- DTD for IPv6 Neighbor Discovery Response Tags on page 2225
- DTD for ISDN Response Tags on page 2227
- DTD for J20 GGSN Response Tags on page 2251
- DTD for LACP Response Tags on page 2269
- DTD for Layer 2 Address Learning Response Tags on page 2271
- DTD for Layer 2 Control Protocol Response Tags on page 2279
- DTD for License Response Tags on page 2295
- DTD for Licensed Feature Metadata Response Tags on page 2299
- DTD for Link-Fault Management Response Tags on page 2289
- DTD for MIP Response Tags on page 2305
- DTD for MPLS OAM Response Tags on page 2301
- DTD for Passive Monitoring Interfaces Response Tags on page 2313
- DTD for PGM Response Tags on page 2317
- DTD for Periodic Packet Management Response Tag Elements on page 2321
- DTD for PPP Response Tag Elements on page 2325
- DTD for PPP over Ethernet Response Tags on page 2331
- DTD for Product Metadata Response Tag Elements on page 2343
- DTD for Redundant Interfaces Response Tags on page 2345
- “DTD for Resource Cleanup Response Tags” on page 2347
- DTD for Routing and Forwarding Table Response Tags on page 2459
- DTD for Routing Protocols Response Tags on page 2349
- DTD for RPM Response Tags on page 2463

- DTD for SDX Response Tags on page 2469
- DTD for Services Accounting Response Tags on page 2473
- DTD for Services Flow Collector Response Tags on page 2479
- DTD for Shutdown Response Tags on page 2483
- DTD for SNMP Response Tags on page 2485
- “DTD for Subscribers Response Tags” on page 2499
- DTD for System Process Response Tags on page 2501
- DTD for Telephony Gateway Module Response Tags on page 2509
- DTD for UDP Forwarding Helper Response Tags on page 2511
- DTD for Virtual Router Redundancy Protocol Response Tags on page 2513
- DTD for X.509 Certificate Response Tags on page 2519

Chapter 4

DTD for Accounting Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-accounting.dtd, which lists the JUNOS XML tags that contain accounting record information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-accounting. To review reference pages for the tags, see "Summary of Accounting Response Tags" on page 376.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-accounting.dtd –>

<!ELEMENT accounting-profile-columns (column-label)*>

<!ELEMENT accounting-profile-filter (filter-name | next-scheduled-collection)*>

<!ELEMENT accounting-profile-header (profile-name | profile-type | profile-interval |
profile-use-count | filename | filesize | filenumber | bytes-written | transfer-interval |
next-transfer-time)*>
<!ATTLIST accounting-profile-header junos:style CDATA #IMPLIED>

<!ELEMENT accounting-profile-information (accounting-profile-header |
accounting-profile-columns | accounting-profile-interfaces | accounting-profile-mib |
accounting-profile-filter)*>

<!ELEMENT accounting-profile-interfaces (interface-name | next-scheduled-collection)*>

<!ELEMENT accounting-profile-mib (mib-name | next-scheduled-collection)*>

<!ELEMENT accounting-record-information (interface-accounting-statistics |
routing-engine-accounting-statistics | filter-accounting-statistics |
cu-accounting-statistics | mib-accounting-statistics | file-accounting-records)*>

<!ELEMENT address-family (#PCDATA)>

<!ELEMENT arp-count (#PCDATA)>

<!ELEMENT atm-oam-count (#PCDATA)>

<!ELEMENT bad-route-discard (#PCDATA)>

<!ELEMENT bfd-bad-checksum (#PCDATA)>

<!ELEMENT bfd-bad-ifl-prefix-length (#PCDATA)>
```

<!ELEMENT bfd-bad-length (#PCDATA)>

<!ELEMENT bfd-bad-options (#PCDATA)>

<!ELEMENT bfd-bad-udp-checksum (#PCDATA)>

<!ELEMENT bfd-bad-udp-length (#PCDATA)>

<!ELEMENT bfd-bad-udp-ports (#PCDATA)>

<!ELEMENT bfd-count (#PCDATA)>

<!ELEMENT bfd-invalid-iff (#PCDATA)>

<!ELEMENT bfd-invalid-iif (#PCDATA)>

<!ELEMENT bfd-no-local-ifl (#PCDATA)>

<!ELEMENT bfd-out-of-packets (#PCDATA)>

<!ELEMENT bfd-rx-queue-overflow (#PCDATA)>

<!ELEMENT bfd-total-absorbed (#PCDATA)>

<!ELEMENT bfd-total-packets (#PCDATA)>

<!ELEMENT bfd-transmit-errors (#PCDATA)>

<!ELEMENT bits-to-test-discard (#PCDATA)>

<!ELEMENT byte-count (#PCDATA)>

<!ELEMENT bytes-written (#PCDATA)>

<!ELEMENT cfm-packets-absorbed (#PCDATA)>

<!ELEMENT cfm-packets-dropped (#PCDATA)>

<!ELEMENT cfm-packets-received (#PCDATA)>

<!ELEMENT cfm-packets-received-invalid-length (#PCDATA)>

<!ELEMENT cfm-packets-received-with-sequence-number (#PCDATA)>

<!ELEMENT cfm-packets-sent-to-re (#PCDATA)>

<!ELEMENT cfm-packets-transmit-error (#PCDATA)>

<!ELEMENT cfm-packets-transmitted (#PCDATA)>

<!ELEMENT column-label (#PCDATA)>

<!ELEMENT counter-name (#PCDATA)>

<!ELEMENT cpu15min (#PCDATA)>

<!ELEMENT cpu1min (#PCDATA)>

```
<!ELEMENT cpu5min (#PCDATA)>

<!ELEMENT cu-accounting-record (profile-layout | epoch-timestamp | utc-timestamp |
interface-name | address-family | destination-class-name | source-class-name |
counter-name | packet-count | byte-count)*>
<!ATTLIST cu-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT cu-accounting-statistics (cu-accounting-record)*>

<!ELEMENT data-error-discard (#PCDATA)>

<!ELEMENT date-yyyymmdd (#PCDATA)>

<!ELEMENT destination-class-name (#PCDATA)>

<!ELEMENT epoch-timestamp (#PCDATA)>

<!ELEMENT error (#PCDATA)>

<!ELEMENT ether-oam-count (#PCDATA)>

<!ELEMENT fabric-discard (#PCDATA)>

<!ELEMENT file-accounting-record (profile-layout | epoch-timestamp)*>

<!ELEMENT file-accounting-records (file-accounting-record)*>

<!ELEMENT filename (#PCDATA)>

<!ELEMENT filenumber (#PCDATA)>

<!ELEMENT filesize (#PCDATA)>

<!ELEMENT filter-accounting-record (profile-layout | epoch-timestamp | utc-timestamp |
interfaces | filter-name | counter-name | packet-count | byte-count)*>
<!ATTLIST filter-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT filter-accounting-statistics (filter-accounting-record)*>

<!ELEMENT filter-name (#PCDATA)>

<!ELEMENT forwarding-class-name (#PCDATA)>

<!ELEMENT fr-lmi-count (#PCDATA)>

<!ELEMENT hardware-input-drops (#PCDATA)>

<!ELEMENT hdlc-keepalive-count (#PCDATA)>

<!ELEMENT hostname (#PCDATA)>

<!ELEMENT index (index-name | index-value)*>

<!ELEMENT index-name (#PCDATA)>

<!ELEMENT index-value (#PCDATA)>
```

```
<!ELEMENT info-cell-discard (#PCDATA)>

<!ELEMENT input-bytes (#PCDATA)>

<!ELEMENT input-checksum (#PCDATA)>

<!ELEMENT input-errors (#PCDATA)>

<!ELEMENT input-multicast (#PCDATA)>

<!ELEMENT input-packets (#PCDATA)>

<!ELEMENT input-pps (#PCDATA)>

<!ELEMENT input-unicast (#PCDATA)>

<!ELEMENT interface-accounting-record (profile-layout | epoch-timestamp |
utc-timestamp | interface-name | snmp-index | input-bytes | output-bytes | input-packets
| output-packets | input-unicast | output-unicast | input-multicast | output-multicast |
input-errors | output-errors | no-proto | rpf-check-bytes | rpf-check-packets |
rpf-check6-bytes | rpf-check6-packets)*>
<!ATTLIST interface-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT interface-accounting-statistics (interface-accounting-record)*>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interfaces (#PCDATA)>

<!ELEMENT invalid-iif-discard (#PCDATA)>

<!ELEMENT isis-iih-count (#PCDATA)>

<!ELEMENT lacp-count (#PCDATA)>

<!ELEMENT ldp-hello-count (#PCDATA)>

<!ELEMENT lfm-packets-absorbed (#PCDATA)>

<!ELEMENT lfm-packets-dropped (#PCDATA)>

<!ELEMENT lfm-packets-received (#PCDATA)>

<!ELEMENT lfm-packets-sent-to-re (#PCDATA)>

<!ELEMENT lfm-packets-transmit-error (#PCDATA)>

<!ELEMENT lfm-packets-transmitted (#PCDATA)>

<!ELEMENT memory-usage (#PCDATA)>

<!ELEMENT mgmt-state (#PCDATA)>

<!ELEMENT mib-accounting-record (profile | epoch-timestamp | utc-timestamp | name |
object-value)*>
<!ATTLIST mib-accounting-record junos:style CDATA #IMPLIED>
```

```
<!ELEMENT mib-accounting-statistics (mib-accounting-record)*>

<!ELEMENT mib-name (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT next-scheduled-collection (#PCDATA)>

<!ELEMENT next-transfer-time (#PCDATA)>

<!ELEMENT nexthop-discard (#PCDATA)>

<!ELEMENT no-proto (#PCDATA)>

<!ELEMENT number (#PCDATA)>

<!ELEMENT object-value (#PCDATA)>

<!ELEMENT object-value-type (#PCDATA)>

<!ELEMENT oid (#PCDATA)>

<!ELEMENT ospf-hello-count (#PCDATA)>

<!ELEMENT ospf3-hello-count (#PCDATA)>

<!ELEMENT output-bytes (#PCDATA)>

<!ELEMENT output-errors (#PCDATA)>

<!ELEMENT output-mtu (#PCDATA)>

<!ELEMENT output-multicast (#PCDATA)>

<!ELEMENT output-packets (#PCDATA)>

<!ELEMENT output-pps (#PCDATA)>

<!ELEMENT output-unicast (#PCDATA)>

<!ELEMENT packet-count (#PCDATA)>

<!ELEMENT pfe (slot-index | slot-type | slot-state | mgmt-state | up-time)*>

<!ELEMENT pfe-bfd-statistics-detail (bfd-invalid-iif | bfd-invalid-iff | bfd-bad-checksum |
bfd-bad-options | bfd-bad-length | bfd-bad-udp-checksum | bfd-bad-udp-length |
bfd-bad-udp-ports | bfd-no-local-ifl | bfd-bad-ifl-prefix-length | bfd-rx-queue-overflow |
bfd-out-of-packets | bfd-total-packets | bfd-total-absorbed | bfd-transmit-errors)*>

<!ELEMENT pfe-cfm-statistics-detail (cfm-packets-received | cfm-packets-sent-to-re |
cfm-packets-absorbed | cfm-packets-received-with-sequence-number |
cfm-packets-received-invalid-length | cfm-packets-transmitted |
cfm-packets-transmit-error | cfm-packets-dropped)*>

<!ELEMENT pfe-chip-statistics (input-checksum | output-mtu)*>
```

<!ELEMENT pfe-cpu-stats (pfe-queue-counters)*>

<!ELEMENT pfe-description (#PCDATA)>

<!ELEMENT pfe-forwarding-module-instance (#PCDATA)>

<!ELEMENT pfe-forwarding-module-name (#PCDATA)>

<!ELEMENT pfe-fpc-instance (#PCDATA)>

<!ELEMENT pfe-hardware-discard-statistics (timeout-discard | truncated-key-discard | bits-to-test-discard | data-error-discard | stack-underflow-discard | stack-overflow-discard | bad-route-discard | nexthop-discard | invalid-iif-discard | info-cell-discard | fabric-discard)*>

<!ELEMENT pfe-information (pfe)*>
<!ATTLIST pfe-information junos:style CDATA #IMPLIED>

<!ELEMENT pfe-input-packets (#PCDATA)>

<!ELEMENT pfe-instance (#PCDATA)>

<!ELEMENT pfe-lfm-statistics-detail (lfm-packets-received | lfm-packets-sent-to-re | lfm-packets-absorbed | lfm-packets-transmitted | lfm-packets-transmit-error | lfm-packets-dropped)*>

<!ELEMENT pfe-local-protocol-statistics (hdlc-keepalive-count | atm-oam-count | fr-lmi-count | ppp-lcp-ncp-count | ospf-hello-count | ospf3-hello-count | rsvp-hello-count | ldp-hello-count | bfd-count | isis-iih-count | lacp-count | arp-count | ether-oam-count | unknown-count)*>

<!ELEMENT pfe-local-traffic-statistics (pfe-input-packets | pfe-output-packets | software-input-control-drops | software-input-high-drops | software-input-medium-drops | software-input-low-drops | software-output-low-drops | hardware-input-drops)*>

<!ELEMENT pfe-multicast-stats (pfe-queue-counters)*>

<!ELEMENT pfe-output-packets (#PCDATA)>

<!ELEMENT pfe-queue (number | forwarding-class-name | queued-packets | queued-packets-na | queued-bytes-na | queued-bytes | queued-packets-rate | queued-bytes-rate | trans-packets | trans-bytes | trans-packets-rate | trans-bytes-rate | tail-drop-packets | tail-drop-packets-rate | tail-drop-packets-na | rate-limit-drop-packets | rate-limit-drop-packets-rate | rate-limit-drop-packets-na | rate-limit-drop-bytes | rate-limit-drop-bytes-rate | rate-limit-drop-bytes-na | red-packets-na | red-packets | red-bytes-na | red-bytes | red-packets-rate | red-bytes-rate | red-packets-ln | red-bytes-ln | red-packets-rate-ln | red-bytes-rate-ln | red-packets-lt | red-bytes-lt | red-packets-rate-lt | red-bytes-rate-lt | red-packets-ht | red-bytes-ht | red-packets-rate-ht | red-bytes-rate-ht | red-packets-hn | red-bytes-hn | red-packets-rate-hn | red-bytes-rate-hn | red-packets-low | red-bytes-low | red-packets-rate-low | red-bytes-rate-low | red-packets-medium-low | red-bytes-medium-low | red-packets-rate-medium-low | red-bytes-rate-medium-low | red-packets-medium-high | red-bytes-medium-high | red-packets-rate-medium-high | red-bytes-rate-medium-high | red-packets-medium | red-bytes-medium | red-packets-rate-medium | red-bytes-rate-medium | red-packets-high | red-bytes-high | red-packets-rate-high | red-bytes-rate-high)*>

<!ELEMENT pfe-queue-counters (pfe-queue)*>

```
<!ELEMENT pfe-resource (pfe-resource-usage)*>

<!ELEMENT pfe-resource-free (#PCDATA)>

<!ELEMENT pfe-resource-general-information (pfe-description | pfe-instance |
pfe-forwarding-module-name | pfe-forwarding-module-instance |
pfe-resource-usage-details)*>

<!ELEMENT pfe-resource-highlight (#PCDATA)>

<!ELEMENT pfe-resource-inuse (#PCDATA)>

<!ELEMENT pfe-resource-inuse-percent (#PCDATA)>

<!ELEMENT pfe-resource-name (#PCDATA)>

<!ELEMENT pfe-resource-total (#PCDATA)>

<!ELEMENT pfe-resource-units (#PCDATA)>

<!ELEMENT pfe-resource-usage (pfe-fpc-instance | pfe-resource-usage-legend |
pfe-resource-general-information)*>

<!ELEMENT pfe-resource-usage-details (pfe-resource-total | pfe-resource-units |
pfe-resource-free | pfe-resource-inuse | pfe-resource-name | pfe-resource-inuse-percent |
pfe-resource-highlight)*>

<!ELEMENT pfe-resource-usage-legend (#PCDATA)>

<!ELEMENT pfe-statistics (pfe-multicast-stats | pfe-cpu-stats | pfe-tail-drop-statistics |
pfe-total-tail-drop | pfe-traffic-statistics | pfe-local-traffic-statistics |
pfe-local-protocol-statistics | pfe-bfd-statistics-detail | pfe-cfm-statistics-detail |
pfe-lfm-statistics-detail | pfe-hardware-discard-statistics | pfe-chip-statistics)*>

<!ELEMENT pfe-tail-drop-statistics (pfe-queue-counters)*>

<!ELEMENT pfe-total-tail-drop (pfe-queue-counters)*>

<!ELEMENT pfe-traffic-statistics (pfe-input-packets | pfe-output-packets | input-pps |
output-pps)*>

<!ELEMENT ppp-lcp-ncp-count (#PCDATA)>

<!ELEMENT profile (#PCDATA)>

<!ELEMENT profile-interval (#PCDATA)>

<!ELEMENT profile-layout (#PCDATA)>

<!ELEMENT profile-name (#PCDATA)>

<!ELEMENT profile-type (#PCDATA)>

<!ELEMENT profile-use-count (#PCDATA)>

<!ELEMENT queued-bytes (#PCDATA)>
```

<!ELEMENT queued-bytes-na (#PCDATA)>

<!ELEMENT queued-bytes-rate (#PCDATA)>

<!ELEMENT queued-packets (#PCDATA)>

<!ELEMENT queued-packets-na (#PCDATA)>

<!ELEMENT queued-packets-rate (#PCDATA)>

<!ELEMENT rate-limit-drop-bytes (#PCDATA)>

<!ELEMENT rate-limit-drop-bytes-na (#PCDATA)>

<!ELEMENT rate-limit-drop-bytes-rate (#PCDATA)>

<!ELEMENT rate-limit-drop-packets (#PCDATA)>

<!ELEMENT rate-limit-drop-packets-na (#PCDATA)>

<!ELEMENT rate-limit-drop-packets-rate (#PCDATA)>

<!ELEMENT red-bytes (#PCDATA)>

<!ELEMENT red-bytes-high (#PCDATA)>

<!ELEMENT red-bytes-hn (#PCDATA)>

<!ELEMENT red-bytes-ht (#PCDATA)>

<!ELEMENT red-bytes-ln (#PCDATA)>

<!ELEMENT red-bytes-low (#PCDATA)>

<!ELEMENT red-bytes-lt (#PCDATA)>

<!ELEMENT red-bytes-medium (#PCDATA)>

<!ELEMENT red-bytes-medium-high (#PCDATA)>

<!ELEMENT red-bytes-medium-low (#PCDATA)>

<!ELEMENT red-bytes-na (#PCDATA)>

<!ELEMENT red-bytes-rate (#PCDATA)>

<!ELEMENT red-bytes-rate-high (#PCDATA)>

<!ELEMENT red-bytes-rate-hn (#PCDATA)>

<!ELEMENT red-bytes-rate-ht (#PCDATA)>

<!ELEMENT red-bytes-rate-ln (#PCDATA)>

<!ELEMENT red-bytes-rate-low (#PCDATA)>

```
<!ELEMENT red-bytes-rate-lt (#PCDATA)>

<!ELEMENT red-bytes-rate-medium (#PCDATA)>

<!ELEMENT red-bytes-rate-medium-high (#PCDATA)>

<!ELEMENT red-bytes-rate-medium-low (#PCDATA)>

<!ELEMENT red-packets (#PCDATA)>

<!ELEMENT red-packets-high (#PCDATA)>

<!ELEMENT red-packets-hn (#PCDATA)>

<!ELEMENT red-packets-ht (#PCDATA)>

<!ELEMENT red-packets-ln (#PCDATA)>

<!ELEMENT red-packets-low (#PCDATA)>

<!ELEMENT red-packets-lt (#PCDATA)>

<!ELEMENT red-packets-medium (#PCDATA)>

<!ELEMENT red-packets-medium-high (#PCDATA)>

<!ELEMENT red-packets-medium-low (#PCDATA)>

<!ELEMENT red-packets-na (#PCDATA)>

<!ELEMENT red-packets-rate (#PCDATA)>

<!ELEMENT red-packets-rate-high (#PCDATA)>

<!ELEMENT red-packets-rate-hn (#PCDATA)>

<!ELEMENT red-packets-rate-ht (#PCDATA)>

<!ELEMENT red-packets-rate-ln (#PCDATA)>

<!ELEMENT red-packets-rate-low (#PCDATA)>

<!ELEMENT red-packets-rate-lt (#PCDATA)>

<!ELEMENT red-packets-rate-medium (#PCDATA)>

<!ELEMENT red-packets-rate-medium-high (#PCDATA)>

<!ELEMENT red-packets-rate-medium-low (#PCDATA)>

<!ELEMENT routing-engine-accounting-record (profile-layout | epoch-timestamp |
utc-timestamp | hostname | date-yyyymmdd | timeofday-hhmmss | uptime | cpu1min |
cpu5min | cpu15min | memory-usage | total-cpu-usage)*>
<!ATTLIST routing-engine-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT routing-engine-accounting-statistics (routing-engine-accounting-record)*>
```

```
<!ELEMENT rpf-check-bytes (#PCDATA)>
<!ELEMENT rpf-check-packets (#PCDATA)>
<!ELEMENT rpf-check6-bytes (#PCDATA)>
<!ELEMENT rpf-check6-packets (#PCDATA)>
<!ELEMENT rsvp-hello-count (#PCDATA)>
<!ELEMENT slot-index (#PCDATA)>
<!ELEMENT slot-state (#PCDATA)>
<!ELEMENT slot-type (#PCDATA)>
<!ELEMENT snmp-index (#PCDATA)>
<!ELEMENT snmp-object (name | index | oid | object-value | object-value-type | error)*>
<!ELEMENT snmp-object-information (snmp-object | snmp-request-error)*>
<!ELEMENT snmp-req-error-value (#PCDATA)>
<!ELEMENT snmp-request-error (snmp-req-error-value)*>
<!ELEMENT software-input-control-drops (#PCDATA)>
<!ELEMENT software-input-high-drops (#PCDATA)>
<!ELEMENT software-input-low-drops (#PCDATA)>
<!ELEMENT software-input-medium-drops (#PCDATA)>
<!ELEMENT software-output-low-drops (#PCDATA)>
<!ELEMENT source-class-name (#PCDATA)>
<!ELEMENT stack-overflow-discard (#PCDATA)>
<!ELEMENT stack-underflow-discard (#PCDATA)>
<!ELEMENT tail-drop-packets (#PCDATA)>
<!ELEMENT tail-drop-packets-na (#PCDATA)>
<!ELEMENT tail-drop-packets-rate (#PCDATA)>
<!ELEMENT timeofday-hhmmss (#PCDATA)>
<!ELEMENT timeout-discard (#PCDATA)>
<!ELEMENT total-cpu-usage (#PCDATA)>
<!ELEMENT trans-bytes (#PCDATA)>
<!ELEMENT trans-bytes-rate (#PCDATA)>
```

```
<!ELEMENT trans-packets (#PCDATA)>

<!ELEMENT trans-packets-rate (#PCDATA)>

<!ELEMENT transfer-interval (#PCDATA)>

<!ELEMENT truncated-key-discard (#PCDATA)>

<!ELEMENT unknown-count (#PCDATA)>

<!ELEMENT up-time (#PCDATA)>
<!ATTLIST up-time junos:seconds CDATA #IMPLIED>

<!ELEMENT uptime (#PCDATA)>
<!ATTLIST uptime junos:seconds CDATA #IMPLIED>

<!ELEMENT utc-timestamp (#PCDATA)>
```

Chapter 5

DTD for Adaptive Services Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-adaptive-services.dtd, which lists the JUNOS XML tags that contain information about adaptive services interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-adaptive-services. To review reference pages for the tags, see "Summary of Adaptive Services Response Tags" on page 405.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-adaptive-services.dtd –>

<!ELEMENT ack-invalid (#PCDATA)>

<!ELEMENT ack-retransmits (#PCDATA)>

<!ELEMENT ack-valid (#PCDATA)>

<!ELEMENT active-controller (#PCDATA)>

<!ELEMENT alg-bootp-errors (#PCDATA)>

<!ELEMENT alg-dce-rpc-errors (#PCDATA)>

<!ELEMENT alg-dce-rpc-portmap-errors (#PCDATA)>

<!ELEMENT alg-dns-errors (#PCDATA)>

<!ELEMENT alg-error-counters (alg-bootp-errors | alg-dce-rpc-errors |
alg-dce-rpc-portmap-errors | alg-dns-errors | alg-exec-errors | alg-ftp-errors |
alg-h323-errors | alg-icmp-errors | alg-iiop-errors | alg-login-errors | alg-netbios-errors |
alg-netshow-errors | alg-realaudio-errors | alg-rpc-errors | alg-rpc-portmap-errors |
alg-rtsp-errors | alg-shell-errors | alg-sip-errors | alg-snmp-errors | alg-sqlnet-errors |
alg-tftp-errors | alg-traceroute-errors)*>

<!ELEMENT alg-errors (#PCDATA)>

<!ELEMENT alg-exec-errors (#PCDATA)>

<!ELEMENT alg-ftp-errors (#PCDATA)>

<!ELEMENT alg-h323-errors (#PCDATA)>
```

<!ELEMENT alg-icmp-errors (#PCDATA)>

<!ELEMENT alg-iiop-errors (#PCDATA)>

<!ELEMENT alg-login-errors (#PCDATA)>

<!ELEMENT alg-name (#PCDATA)>

<!ELEMENT alg-netbios-errors (#PCDATA)>

<!ELEMENT alg-netshow-errors (#PCDATA)>

<!ELEMENT alg-realaudio-errors (#PCDATA)>

<!ELEMENT alg-rpc-errors (#PCDATA)>

<!ELEMENT alg-rpc-portmap-errors (#PCDATA)>

<!ELEMENT alg-rtsp-errors (#PCDATA)>

<!ELEMENT alg-shell-errors (#PCDATA)>

<!ELEMENT alg-sip-errors (#PCDATA)>

<!ELEMENT alg-snmp-errors (#PCDATA)>

<!ELEMENT alg-sqlnet-errors (#PCDATA)>

<!ELEMENT alg-tftp-errors (#PCDATA)>

<!ELEMENT alg-traceroute-errors (#PCDATA)>

<!ELEMENT audit-observed-events-returns-history (#PCDATA)>

<!ELEMENT bad-checksum (#PCDATA)>

<!ELEMENT bad-syn-cookie-response (#PCDATA)>

<!ELEMENT base-root-entry (brp_name | brp_minimum | brp_maximum | brp_default)*>

<!ELEMENT brp_default (#PCDATA)>

<!ELEMENT brp_maximum (#PCDATA)>

<!ELEMENT brp_minimum (#PCDATA)>

<!ELEMENT brp_name (#PCDATA)>

<!ELEMENT bsg-admission-control-details (bsg-cac-name |
bsg-admission-control-dialogs | bsg-admission-control-transactions)*>

<!ELEMENT bsg-admission-control-dialog-title (#PCDATA)>

<!ELEMENT bsg-admission-control-dialogs (bsg-admission-control-dialog-title |
bsg-admission-controlled-object)*>

```
<!ELEMENT bsg-admission-control-transaction-title (#PCDATA)>

<!ELEMENT bsg-admission-control-transactions (bsg-admission-control-transaction-title
| bsg-admission-controlled-object)*>

<!ELEMENT bsg-admission-controlled-object (bsg-cac-active | bsg-cac-attempts-handled
| bsg-cac-attempts-rejected-concurrent | bsg-cac-attempts-rejected-rate)*>

<!ELEMENT bsg-admission-controller (#PCDATA)>

<!ELEMENT bsg-cac-active (#PCDATA)>

<!ELEMENT bsg-cac-attempts-handled (#PCDATA)>

<!ELEMENT bsg-cac-attempts-rejected-concurrent (#PCDATA)>

<!ELEMENT bsg-cac-attempts-rejected-rate (#PCDATA)>

<!ELEMENT bsg-cac-name (#PCDATA)>

<!ELEMENT bsg-dialog-information-call-id (#PCDATA)>

<!ELEMENT bsg-dialog-information-local-tag (#PCDATA)>

<!ELEMENT bsg-dialog-information-local-uri (#PCDATA)>

<!ELEMENT bsg-dialog-information-remote-tag (#PCDATA)>

<!ELEMENT bsg-dialog-information-remote-uri (#PCDATA)>

<!ELEMENT bsg-information-active-calls (#PCDATA)>

<!ELEMENT bsg-information-brief (bsg-information-brief-details)*>

<!ELEMENT bsg-information-brief-details (bsg-signaling-source-ip |
bsg-signaling-destination-ip | bsg-dialog-information-call-id)*>

<!ELEMENT bsg-information-details-detailed (bsg-service-point-calls-information)*>

<!ELEMENT bsg-information-summary (bsg-information-active-calls)*>

<!ELEMENT bsg-macthed-policies (#PCDATA)>

<!ELEMENT bsg-manipulation-rules (#PCDATA)>

<!ELEMENT bsg-media-details (bsg-media-ip | bsg-media-port | bsg-media-status)*>

<!ELEMENT bsg-media-ip (#PCDATA)>

<!ELEMENT bsg-media-port (#PCDATA)>

<!ELEMENT bsg-media-status (#PCDATA)>

<!ELEMENT bsg-memory-pools (memory-pool-name | memory-pool-chunks-num |
memory-pool-free-chunks-num)*>

<!ELEMENT bsg-next-hop (#PCDATA)>
```

<!ELEMENT bsg-service-point-calls-details (bsg-sp-address | bsg-sp-direction |
bsg-sp-failed-calls | bsg-sp-completed-calls | bsg-sp-active-calls)*>

<!ELEMENT bsg-service-point-calls-failed-details (bsg-sp-name | bsg-sp-direction |
bsg-sp-error-response-code | bsg-sp-internal-error | bsg-sp-inactive-timeout |
bsg-sp-setup-media-failure | bsg-sp-setup-media-failure-inactivity |
bsg-sp-cac-policy-rejection | bsg-sp-default-behavior-policy-rejection |
bsg-sp-configured-behavior-policy-rejection | bsg-sp-transport-conflict-policy-rejection |
bsg-sp-protocol-error | bsg-sp-setup-timeout | bsg-sp-transport-error)*>

<!ELEMENT bsg-service-point-calls-information (bsg-signaling-source-ip |
bsg-signaling-destination-ip | bsg-dialog-information-call-id |
bsg-dialog-information-local-uri | bsg-dialog-information-remote-uri |
bsg-dialog-information-local-tag | bsg-dialog-information-remote-tag | bsg-next-hop |
bsg-media-details | bsg-macthed-policies | bsg-admission-controller |
bsg-manipulation-rules)*>

<!ELEMENT bsg-signaling-destination-ip (#PCDATA)>

<!ELEMENT bsg-signaling-source-ip (#PCDATA)>

<!ELEMENT bsg-sp-active-calls (#PCDATA)>

<!ELEMENT bsg-sp-address (#PCDATA)>

<!ELEMENT bsg-sp-cac-policy-rejection (#PCDATA)>

<!ELEMENT bsg-sp-completed-calls (#PCDATA)>

<!ELEMENT bsg-sp-configured-behavior-policy-rejection (#PCDATA)>

<!ELEMENT bsg-sp-default-behavior-policy-rejection (#PCDATA)>

<!ELEMENT bsg-sp-direction (#PCDATA)>

<!ELEMENT bsg-sp-error-response-code (#PCDATA)>

<!ELEMENT bsg-sp-failed-calls (#PCDATA)>

<!ELEMENT bsg-sp-inactive-timeout (#PCDATA)>

<!ELEMENT bsg-sp-internal-error (#PCDATA)>

<!ELEMENT bsg-sp-name (#PCDATA)>

<!ELEMENT bsg-sp-protocol-error (#PCDATA)>

<!ELEMENT bsg-sp-setup-media-failure (#PCDATA)>

<!ELEMENT bsg-sp-setup-media-failure-inactivity (#PCDATA)>

<!ELEMENT bsg-sp-setup-timeout (#PCDATA)>

<!ELEMENT bsg-sp-transport-conflict-policy-rejection (#PCDATA)>

<!ELEMENT bsg-sp-transport-error (#PCDATA)>

```
<!ELEMENT bsg-start-time (#PCDATA)>

<!ELEMENT bsg-statistics-admission-control (bsg-start-time |
bsg-admission-control-details)*>

<!ELEMENT bsg-statistics-admission-control-information
(bsg-statistics-admission-control)*>

<!ELEMENT bsg-statistics-calls (bsg-start-time | bsg-service-point-calls-details)*>

<!ELEMENT bsg-statistics-calls-details (bsg-statistics-calls)*>

<!ELEMENT bsg-statistics-calls-failed (bsg-start-time |
bsg-service-point-calls-failed-details)*>

<!ELEMENT bsg-statistics-calls-failed-details (bsg-statistics-calls-failed)*>

<!ELEMENT bsg-statistics-drain-information (#PCDATA)>

<!ELEMENT bye-invalid (#PCDATA)>

<!ELEMENT bye-valid (#PCDATA)>

<!ELEMENT bypass-output (#PCDATA)>

<!ELEMENT bytes (#PCDATA)>

<!ELEMENT bytes-used (#PCDATA)>

<!ELEMENT call-segments (#PCDATA)>

<!ELEMENT cancel-invalid (#PCDATA)>

<!ELEMENT cancel-valid (#PCDATA)>

<!ELEMENT cause-cost-warning (#PCDATA)>

<!ELEMENT cause-credit-expiry (#PCDATA)>

<!ELEMENT cause-default (#PCDATA)>

<!ELEMENT cause-not-allowed (#PCDATA)>

<!ELEMENT cause-quality-of-service (#PCDATA)>

<!ELEMENT cause-roaming (#PCDATA)>

<!ELEMENT cause-time-of-day (#PCDATA)>

<!ELEMENT cause-unknown (#PCDATA)>

<!ELEMENT cause-unsubscribed (#PCDATA)>

<!ELEMENT cause-volume-expired (#PCDATA)>

<!ELEMENT cleanup-timeout (#PCDATA)>
```

<!ELEMENT command-name (#PCDATA)>

<!ELEMENT commands-error (#PCDATA)>

<!ELEMENT commands-success (#PCDATA)>

<!ELEMENT commands-total (#PCDATA)>

<!ELEMENT commands-wildcard (#PCDATA)>

<!ELEMENT connection-status (#PCDATA)>

<!ELEMENT content-errors (#PCDATA)>

<!ELEMENT contexts-number (#PCDATA)>

<!ELEMENT controller-entry (controller-name | remote-ip-address | remote-port)*>

<!ELEMENT controller-name (#PCDATA)>

<!ELEMENT conversations-removed (#PCDATA)>

<!ELEMENT cos-stats-service-set-dscp-entry (received-dscp |
total-received-dscp-packets | total-marked-dscp-packets)*>

<!ELEMENT cos-stats-service-set-dscp-information (cos-stats-service-set-dscp-entry)*>

<!ELEMENT cos-stats-service-set-forwarding-class-entry (received-forwarding-class |
total-received-forwarding-class-packets | total-assigned-forwarding-class-packets)*>

<!ELEMENT cos-stats-service-set-forwarding-class-information
(cos-stats-service-set-forwarding-class-entry)*>

<!ELEMENT cpu-name (#PCDATA)>

<!ELEMENT cpu-role-name (#PCDATA)>

<!ELEMENT cpu-utilization-percent (#PCDATA)>

<!ELEMENT cpulimit-drops (#PCDATA)>

<!ELEMENT crtp-compressed-rx (#PCDATA)>

<!ELEMENT crtp-compressed-tx (#PCDATA)>

<!ELEMENT crtp-compression-ratio (#PCDATA)>

<!ELEMENT crtp-config-info-entry (interface-name | crtp-port-min | crtp-port-max |
crtp-tcp-space | crtp-udp-space | crtp-max-period | crtp-max-time | crtp-rtp-queues)*>

<!ELEMENT crtp-counter-name (#PCDATA)>

<!ELEMENT crtp-counter-received (#PCDATA)>

<!ELEMENT crtp-counter-table (crtp-counter-name | crtp-counter-received |
crtp-counter-transmit)*>

```
<!ELEMENT crtp-counter-transmit (#PCDATA)>

<!ELEMENT crtp-decompression-ratio (#PCDATA)>

<!ELEMENT crtp-discards (#PCDATA)>

<!ELEMENT crtp-flow-context-id (#PCDATA)>

<!ELEMENT crtp-flow-destination-info (#PCDATA)>

<!ELEMENT crtp-flow-entry (crtp-flow-context-id | crtp-flow-rtp-id | crtp-flow-source-info |
crtp-flow-destination-info | crtp-flow-type)*>

<!ELEMENT crtp-flow-rtp-id (#PCDATA)>

<!ELEMENT crtp-flow-source-info (#PCDATA)>

<!ELEMENT crtp-flow-type (#PCDATA)>

<!ELEMENT crtp-ip-counter-name (#PCDATA)>

<!ELEMENT crtp-ip-counter-received (#PCDATA)>

<!ELEMENT crtp-ip-counter-table (crtp-ip-counter-name | crtp-ip-counter-received |
crtp-ip-counter-transmit)*>

<!ELEMENT crtp-ip-counter-transmit (#PCDATA)>

<!ELEMENT crtp-max-period (#PCDATA)>

<!ELEMENT crtp-max-time (#PCDATA)>

<!ELEMENT crtp-per-interface-flow-table (interface-name | service-crtp-flow-table)*>

<!ELEMENT crtp-port-max (#PCDATA)>

<!ELEMENT crtp-port-min (#PCDATA)>

<!ELEMENT crtp-rtp-queues (#PCDATA)>

<!ELEMENT crtp-sessions-rx (#PCDATA)>

<!ELEMENT crtp-sessions-tx (#PCDATA)>

<!ELEMENT crtp-stats-entry (crtp-compression-ratio | crtp-decompression-ratio |
crtp-sessions-rx | crtp-sessions-tx | crtp-compressed-rx | crtp-compressed-tx |
crtp-discards)*>

<!ELEMENT crtp-tcp-space (#PCDATA)>

<!ELEMENT crtp-udp-space (#PCDATA)>

<!ELEMENT debug-applicationq-latency-information (#PCDATA)>

<!ELEMENT debug-applicationq-size-information (#PCDATA)>
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<!ELEMENT debug-commit-latency-information (#PCDATA)>

<!ELEMENT debug-mem-mgmt-location-information (#PCDATA)>

<!ELEMENT debug-mem-mgmt-memory-usage-information (#PCDATA)>

<!ELEMENT debug-mem-mgmt-type-information (#PCDATA)>

<!ELEMENT debug-resumeq-latency-information (#PCDATA)>

<!ELEMENT debug-resumeq-size-information (#PCDATA)>

<!ELEMENT debug-roundtrip-information (#PCDATA)>

<!ELEMENT debug-waitq-latency-information (#PCDATA)>

<!ELEMENT debug-waitq-size-information (#PCDATA)>

<!ELEMENT debug-workq-latency-information (#PCDATA)>

<!ELEMENT debug-workq-size-information (#PCDATA)>

<!ELEMENT default (#PCDATA)>

<!ELEMENT destination-routing-instance (#PCDATA)>

<!ELEMENT detect (#PCDATA)>

<!ELEMENT drop (#PCDATA)>

<!ELEMENT drop_counters (ip-option | syn-defense | nat-ports-exhausted)*>

<!ELEMENT dscp (#PCDATA)>

<!ELEMENT emergency-contexts-number (#PCDATA)>

<!ELEMENT encoding (no-dscp-bit-mirroring)*>

<!ELEMENT error-counters (ip-errors | tcp-errors | udp-errors | icmp-errors | non-ip-packets | alg-errors)*>

<!ELEMENT errored-bytes (#PCDATA)>

<!ELEMENT errored-packets (#PCDATA)>

<!ELEMENT errored-packets-http-transaction-in-error (#PCDATA)>

<!ELEMENT errored-packets-tcp-malformed (#PCDATA)>

<!ELEMENT errored-packets-wap-invalid-transaction (#PCDATA)>

<!ELEMENT errored-packets-wap-transaction-in-error (#PCDATA)>

<!ELEMENT existing-flow-accepts (#PCDATA)>

<!ELEMENT existing-flow-counters (existing-flow-accepts | existing-flow-discards | existing-flow-rejects)*>

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<!ELEMENT existing-flow-discards (#PCDATA)>
<!ELEMENT existing-flow-rejects (#PCDATA)>
<!ELEMENT fast-update-filters-entry (max-terms | max-term-percentage)*>
<!ELEMENT firewall-entry (connection-status | number-of-terms | number-of-filters)*>
<!ELEMENT five-second-usage (#PCDATA)>
<!ELEMENT flow (#PCDATA)>
<!ELEMENT flow-byte-errored (#PCDATA)>
<!ELEMENT flow-bytes-processed (#PCDATA)>
<!ELEMENT flow-count (#PCDATA)>
<!ELEMENT flow-created (#PCDATA)>
<!ELEMENT flow-freed (#PCDATA)>
<!ELEMENT flow-freed-idle (#PCDATA)>
<!ELEMENT flow-gate-pdr (#PCDATA)>
<!ELEMENT flow-gate-pdr-mbs (#PCDATA)>
<!ELEMENT flow-gate-sdr (#PCDATA)>
<!ELEMENT flow-gate-sdr-mbs (#PCDATA)>
<!ELEMENT flow-gate-tman-policing (#PCDATA)>
<!ELEMENT flow-icmp-bytes-errored (#PCDATA)>
<!ELEMENT flow-icmp-bytes-processed (#PCDATA)>
<!ELEMENT flow-icmp-packets-errored (#PCDATA)>
<!ELEMENT flow-icmp-packets-errored-bad-flow (#PCDATA)>
<!ELEMENT flow-icmp-packets-processed (#PCDATA)>
<!ELEMENT flow-packets-errored (#PCDATA)>
<!ELEMENT flow-packets-processed (#PCDATA)>
<!ELEMENT flow-peak (#PCDATA)>
```

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<!ELEMENT flow-table-statistics (interface-name | flow-tables | flow | flow-peak | flow-tcp
| flow-tcp-peak | flow-udp | flow-udp-peak | flow-created | flow-freed | flow-freed-idle |
flow-tcp-created | flow-tcp-freed | flow-tcp-freed-idle | flow-udp-created | flow-udp-freed |
flow-udp-freed-idle | flow-packets-processed | flow-packets-errored |
flow-bytes-processed | flow-byte-errored | flow-tcp-packets-processed |
flow-tcp-packets-errored | flow-tcp-packets-errored-bad-flow | flow-tcp-bytes-processed |
flow-tcp-bytes-errored | flow-udp-packets-processed | flow-udp-packets-errored |
flow-udp-packets-errored-bad-flow | flow-udp-bytes-processed | flow-udp-bytes-errored |
flow-icmp-packets-processed | flow-icmp-packets-errored |
flow-icmp-packets-errored-bad-flow | flow-icmp-bytes-processed |
flow-icmp-bytes-errored)*>

<!ELEMENT flow-table-statistics-information (flow-table-statistics)*>

<!ELEMENT flow-tables (#PCDATA)>

<!ELEMENT flow-tcp (#PCDATA)>

<!ELEMENT flow-tcp-bytes-errored (#PCDATA)>

<!ELEMENT flow-tcp-bytes-processed (#PCDATA)>

<!ELEMENT flow-tcp-created (#PCDATA)>

<!ELEMENT flow-tcp-freed (#PCDATA)>

<!ELEMENT flow-tcp-freed-idle (#PCDATA)>

<!ELEMENT flow-tcp-packets-errored (#PCDATA)>

<!ELEMENT flow-tcp-packets-errored-bad-flow (#PCDATA)>

<!ELEMENT flow-tcp-packets-processed (#PCDATA)>

<!ELEMENT flow-tcp-peak (#PCDATA)>

<!ELEMENT flow-udp (#PCDATA)>

<!ELEMENT flow-udp-bytes-errored (#PCDATA)>

<!ELEMENT flow-udp-bytes-processed (#PCDATA)>

<!ELEMENT flow-udp-created (#PCDATA)>

<!ELEMENT flow-udp-freed (#PCDATA)>

<!ELEMENT flow-udp-freed-idle (#PCDATA)>

<!ELEMENT flow-udp-packets-errored (#PCDATA)>

<!ELEMENT flow-udp-packets-errored-bad-flow (#PCDATA)>

<!ELEMENT flow-udp-packets-processed (#PCDATA)>

<!ELEMENT flow-udp-peak (#PCDATA)>

<!ELEMENT flowlimit-drops (#PCDATA)>
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<!ELEMENT flows-removed (#PCDATA)>

<!ELEMENT fragment-output (#PCDATA)>

<!ELEMENT fragment-overlap (#PCDATA)>

<!ELEMENT fragment-reassembly-timeout (#PCDATA)>

<!ELEMENT fragmentation (#PCDATA)>

<!ELEMENT fragmenter-entries (fragmenter-entry)*>

<!ELEMENT fragmenter-entry (cpu-name | idle | timer | system | freeback | drop | fragmentation | reassembly)*>

<!ELEMENT free-frame (#PCDATA)>

<!ELEMENT freeback (#PCDATA)>

<!ELEMENT gate-action (#PCDATA)>

<!ELEMENT gate-count (#PCDATA)>

<!ELEMENT gate-direction (#PCDATA)>

<!ELEMENT gate-dropped-packets (#PCDATA)>

<!ELEMENT gate-dscp (#PCDATA)>

<!ELEMENT gate-fractional-lost-rtp-packets (#PCDATA)>

<!ELEMENT gate-fuf-policer-drop-count (#PCDATA)>

<!ELEMENT gate-fuf-policing (#PCDATA)>

<!ELEMENT gate-fuf-statistics-information (gate-fuf-policer-drop-count)*>

<!ELEMENT gate-green-action (#PCDATA)>

<!ELEMENT gate-id (#PCDATA)>

<!ELEMENT gate-input-packets (#PCDATA)>

<!ELEMENT gate-latch (#PCDATA)>

<!ELEMENT gate-local-destination-address (#PCDATA)>

<!ELEMENT gate-local-destination-port (#PCDATA)>

<!ELEMENT gate-local-source-address (#PCDATA)>

<!ELEMENT gate-local-source-port (#PCDATA)>

<!ELEMENT gate-lost-rtp-packets (#PCDATA)>

<!ELEMENT gate-mbs (#PCDATA)>

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<!ELEMENT gate-measured-rate (#PCDATA)>

<!ELEMENT gate-mirroring-correlation-number (#PCDATA)>

<!ELEMENT gate-mirroring-direction (#PCDATA)>

<!ELEMENT gate-mirroring-state (#PCDATA)>

<!ELEMENT gate-mirroring-target-id (#PCDATA)>

<!ELEMENT gate-output-packets (#PCDATA)>

<!ELEMENT gate-pdr (#PCDATA)>

<!ELEMENT gate-red-action (#PCDATA)>

<!ELEMENT gate-remote-destination-address (#PCDATA)>

<!ELEMENT gate-remote-destination-port (#PCDATA)>

<!ELEMENT gate-remote-source-address (#PCDATA)>

<!ELEMENT gate-remote-source-port (#PCDATA)>

<!ELEMENT gate-rtcp-information (gate-rtcp-sender-information |
gate-rtcp-receiver-information)*>

<!ELEMENT gate-rtcp-invalid-pkts (#PCDATA)>

<!ELEMENT gate-rtcp-received-ssrc (#PCDATA)>

<!ELEMENT gate-rtcp-receiver-entry (gate-rtcp-received-ssrc | gate-rtcp-receiver-lost-pkts
| gate-rtcp-receiver-lost-pkt-fraction | gate-rtcp-receiver-jitter)*>

<!ELEMENT gate-rtcp-receiver-information (gate-rtcp-receiver-entry)*>

<!ELEMENT gate-rtcp-receiver-jitter (#PCDATA)>

<!ELEMENT gate-rtcp-receiver-lost-pkt-fraction (#PCDATA)>

<!ELEMENT gate-rtcp-receiver-lost-pkts (#PCDATA)>

<!ELEMENT gate-rtcp-sender-information (gate-rtcp-sender-ssrc | gate-rtcp-sender-octets
| gate-rtcp-sender-pkts | gate-rtcp-invalid-pkts)*>

<!ELEMENT gate-rtcp-sender-octets (#PCDATA)>

<!ELEMENT gate-rtcp-sender-pkts (#PCDATA)>

<!ELEMENT gate-rtcp-sender-ssrc (#PCDATA)>

<!ELEMENT gate-rtcp-shadow (#PCDATA)>

<!ELEMENT gate-sdr (#PCDATA)>

<!ELEMENT gate-service-set-id (#PCDATA)>
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<!ELEMENT gate-state (#PCDATA)>

<!ELEMENT gate-tman-policing (#PCDATA)>

<!ELEMENT gate-transport (#PCDATA)>

<!ELEMENT gate-yellow-action (#PCDATA)>

<!ELEMENT gateway-collections-number (#PCDATA)>

<!ELEMENT gateway-entry (gateway-name | local-ip-address | local-port | platform | service-state | active-controller | replication-socket | synchronization-state | cleanup-timeout | maximum-concurrent-calls | inactivity-timeout-delay | inactivity-timeout-duration | latch-deadlock-duration | h248-timers-entry | base-root-entry | h248-options-entry | h248-segmentation-properties-entry | h248-diffserv-entry | h248-notification-behavior-entry | h248-application-data-inactivity-detection-entry | h248-event-timestamp-notification-entry | inactivity-timer-entry | fast-update-filters-entry | controller-entry | overload-control-entry)*>

<!ELEMENT gateway-name (#PCDATA)>

<!ELEMENT h248-application-data-inactivity-detection-entry (ip-flow-stop-detection)*>

<!ELEMENT h248-diffserv-entry (dscp)*>

<!ELEMENT h248-event-timestamp-notification-entry (requested-timestamp)*>

<!ELEMENT h248-notification-behavior-entry (notification-regulation)*>

<!ELEMENT h248-options-entry (wildcard-response-service-change | suppress-sc-forced-state-loss | audit-observed-events-returns-history | encoding)*>

<!ELEMENT h248-segmentation-properties-entry (sgp_name | sgp_minimum | sgp_maximum | sgp_default)*>

<!ELEMENT h248-timers-entry (maximum-waiting-delay | tmax-retransmission-delay | initial-average-ack-delay | maximum-net-propagation-delay)*>

<!ELEMENT header-examination-bytes (#PCDATA)>

<!ELEMENT header-examination-failed-configuration (#PCDATA)>

<!ELEMENT header-examination-flow (#PCDATA)>

<!ELEMENT header-examination-flow-matched (#PCDATA)>

<!ELEMENT header-examination-http-protocol-required (#PCDATA)>

<!ELEMENT header-examination-packets (#PCDATA)>

<!ELEMENT header-examination-protocol-required (#PCDATA)>

<!ELEMENT header-examination-wap-protocol-required (#PCDATA)>

<!ELEMENT header-redirect-set-name (#PCDATA)>

<!ELEMENT header-redirect-set-statistics (header-redirect-set-name | cause-roaming | cause-time-of-day | cause-quality-of-service | cause-volume-expired | cause-cost-warning | cause-not-allowed | cause-unsubscribed | cause-credit-expiry | cause-unknown | cause-default)*>

<!ELEMENT header-redirect-set-statistics-information (interface-name | interfaces | header-redirect-set-statistics)*>

<!ELEMENT http-transaction-created (#PCDATA)>

<!ELEMENT http-transaction-freed (#PCDATA)>

<!ELEMENT http-transaction-idle-freed (#PCDATA)>

<!ELEMENT http-transaction-maximum (#PCDATA)>

<!ELEMENT icmp-error-counters (icmp-length-error | icmp-error-length-error | ping-duplicate-sequence-number | ping-mismatched-sequence-number)*>

<!ELEMENT icmp-error-length-error (#PCDATA)>

<!ELEMENT icmp-errors (#PCDATA)>

<!ELEMENT icmp-length-error (#PCDATA)>

<!ELEMENT id (#PCDATA)>

<!ELEMENT idle (#PCDATA)>

<!ELEMENT ids-anomalies-count (#PCDATA)>

<!ELEMENT ids-anomaly-count (#PCDATA)>

<!ELEMENT ids-anomaly-description (#PCDATA)>

<!ELEMENT ids-anomaly-elapsed (#PCDATA)>

<!ELEMENT ids-anomaly-entry (ids-anomaly-description | ids-anomaly-count | ids-anomaly-rate | ids-anomaly-elapsed)*>

<!ELEMENT ids-anomaly-rate (#PCDATA)>

<!ELEMENT ids-bytes-count (#PCDATA)>

<!ELEMENT ids-flow-application (#PCDATA)>

<!ELEMENT ids-flow-count (#PCDATA)>

<!ELEMENT ids-flow-destination-ip (#PCDATA)>

<!ELEMENT ids-flow-entry (ids-flow-source-ip | ids-flow-destination-ip | ids-flow-time | ids-flow-flags | ids-flow-long-flags | ids-flow-count | ids-flow-application | ids-bytes-count | ids-packets-count | ids-flows-count | ids-anomalies-count | ids-anomaly-entry)*>
<!ATTLIST ids-flow-entry junos:style CDATA #IMPLIED>

<!ELEMENT ids-flow-flags (#PCDATA)>

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<!ELEMENT ids-flow-long-flags (#PCDATA)>

<!ELEMENT ids-flow-source-ip (#PCDATA)>

<!ELEMENT ids-flow-table (ids-flow-entry)*>
<!ATTLIST ids-flow-table heading CDATA #IMPLIED>

<!ELEMENT ids-flow-time (#PCDATA)>

<!ELEMENT ids-flows-count (#PCDATA)>

<!ELEMENT ids-packets-count (#PCDATA)>

<!ELEMENT ids-per-service-set-flow-table (service-set-name | interface-name |
ids-sort-order | ids-flow-table)*>

<!ELEMENT ids-show-summary (interface-name | ids-total-entries |
ids-total-failed-insertions | ids-total-events)*>

<!ELEMENT ids-sort-order (#PCDATA)>

<!ELEMENT ids-total-entries (#PCDATA)>

<!ELEMENT ids-total-events (#PCDATA)>

<!ELEMENT ids-total-failed-insertions (#PCDATA)>

<!ELEMENT illegal-destination-address (#PCDATA)>

<!ELEMENT illegal-fragment-length (#PCDATA)>

<!ELEMENT illegal-ip-protocol (#PCDATA)>

<!ELEMENT illegal-sequence-number-flags (#PCDATA)>

<!ELEMENT illegal-source-address (#PCDATA)>

<!ELEMENT inactivity-timeout-delay (#PCDATA)>

<!ELEMENT inactivity-timeout-duration (#PCDATA)>

<!ELEMENT inactivity-timer-entry (detect | maximum-inactivity-time)*>

<!ELEMENT info-invalid (#PCDATA)>

<!ELEMENT info-valid (#PCDATA)>

<!ELEMENT initial-average-ack-delay (#PCDATA)>

<!ELEMENT input (#PCDATA)>

<!ELEMENT input-1 (#PCDATA)>

<!ELEMENT input-2 (#PCDATA)>

<!ELEMENT input-fragments (#PCDATA)>
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<!ELEMENT input-lfi (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interfaces (#PCDATA)>

<!ELEMENT invite-new (#PCDATA)>

<!ELEMENT invite-retransmits (#PCDATA)>

<!ELEMENT ip-error-counters (ip-length-error | ip-header-length-error | long-packet | illegal-source-address | illegal-destination-address | ttl-zero | illegal-ip-protocol | land-attack | non-ipv4 | bad-checksum | illegal-fragment-length | fragment-overlap | fragment-reassembly-timeout | unknown)*>

<!ELEMENT ip-errors (#PCDATA)>

<!ELEMENT ip-flow-stop-detection (#PCDATA)>

<!ELEMENT ip-header-length-error (#PCDATA)>

<!ELEMENT ip-length-error (#PCDATA)>

<!ELEMENT ip-option (#PCDATA)>

<!ELEMENT l2tp-control-memory-bytes (#PCDATA)>

<!ELEMENT l2tp-control-rx-bytes (#PCDATA)>

<!ELEMENT l2tp-control-rx-packets (#PCDATA)>

<!ELEMENT l2tp-control-tx-bytes (#PCDATA)>

<!ELEMENT l2tp-control-tx-packets (#PCDATA)>

<!ELEMENT l2tp-create-time (#PCDATA)>

<!ELEMENT l2tp-data-memory-bytes (#PCDATA)>

<!ELEMENT l2tp-data-rx-bytes (#PCDATA)>

<!ELEMENT l2tp-data-rx-packets (#PCDATA)>

<!ELEMENT l2tp-data-tx-bytes (#PCDATA)>

<!ELEMENT l2tp-data-tx-packets (#PCDATA)>

<!ELEMENT l2tp-error-rx-packets (#PCDATA)>

<!ELEMENT l2tp-error-tx-packets (#PCDATA)>

<!ELEMENT l2tp-idle-time (#PCDATA)>

<!ELEMENT l2tp-interface-control-rx-packets (#PCDATA)>

<!ELEMENT l2tp-interface-control-tx-packets (#PCDATA)>

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<!ELEMENT l2tp-interface-data-rx-packets (#PCDATA)>

<!ELEMENT l2tp-interface-data-tx-packets (#PCDATA)>

<!ELEMENT l2tp-interface-error-rx-packets (#PCDATA)>

<!ELEMENT l2tp-interface-error-tx-packets (#PCDATA)>

<!ELEMENT l2tp-interface-name (#PCDATA)>

<!ELEMENT l2tp-multilink-bundle-endpoint (#PCDATA)>

<!ELEMENT l2tp-multilink-bundle-id (#PCDATA)>

<!ELEMENT l2tp-multilink-bundle-mrru-input (#PCDATA)>

<!ELEMENT l2tp-multilink-bundle-mrru-output (#PCDATA)>

<!ELEMENT l2tp-multilink-bundle-num-links (#PCDATA)>

<!ELEMENT l2tp-multilink-clear-entry (l2tp-multilink-bundle-id)*>
<!ATTLIST l2tp-multilink-clear-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-multilink-entry (l2tp-multilink-bundle-id | l2tp-multilink-bundle-endpoint |
l2tp-multilink-bundle-num-links | l2tp-multilink-bundle-mrru-input |
l2tp-multilink-bundle-mrru-output | l2tp-statistics-since | l2tp-control-tx-packets |
l2tp-control-rx-packets | l2tp-data-tx-packets | l2tp-data-rx-packets | l2tp-control-tx-bytes |
l2tp-control-rx-bytes | l2tp-data-tx-bytes | l2tp-data-rx-bytes | l2tp-error-tx-packets |
l2tp-error-rx-packets | l2tp-multilink-links)*>
<!ATTLIST l2tp-multilink-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-multilink-links (l2tp-session-entry)*>

<!ELEMENT l2tp-per-tunnel-group-tunnel-table (tunnel-group-name | interface-name |
l2tp-tunnel-table)*>

<!ELEMENT l2tp-per-tunnel-session-table (tunnel-group-name | interface-name |
l2tp-tunnel-local-id | l2tp-session-table)*>

<!ELEMENT l2tp-per-tunnel-user-table (#PCDATA)>

<!ELEMENT l2tp-session-authentication (#PCDATA)>

<!ELEMENT l2tp-session-bearer-type (#PCDATA)>

<!ELEMENT l2tp-session-bundle-id (#PCDATA)>

<!ELEMENT l2tp-session-call-serial-number (#PCDATA)>

<!ELEMENT l2tp-session-cell-overhead (#PCDATA)>

<!ELEMENT l2tp-session-clear-entry (l2tp-session-local-id)*>
<!ATTLIST l2tp-session-clear-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-session-create-time (#PCDATA)>

<!ELEMENT l2tp-session-encapsulation-overhead (#PCDATA)>
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<!ELEMENT l2tp-session-entry (l2tp-session-local-id | l2tp-session-remote-id |
l2tp-session-remote-ip | l2tp-session-local-ip | l2tp-session-state |
l2tp-session-bundle-id | l2tp-session-user-name | l2tp-session-own-ip |
l2tp-session-peer-ip | l2tp-session-local-name | l2tp-session-remote-name |
l2tp-session-mode | l2tp-session-local-mru | l2tp-session-remote-mru |
l2tp-session-tx-speed | l2tp-session-rx-speed | l2tp-session-bearer-type |
l2tp-session-framing-type | l2tp-session-lcp-renegotiation | l2tp-session-authentication |
l2tp-session-interface-id | l2tp-session-interface-unit | l2tp-session-call-serial-number |
l2tp-session-policer-bandwidth | l2tp-session-policer-exclude-bandwidth |
l2tp-session-policer-burstsize | l2tp-session-firewall-filter |
l2tp-session-encapsulation-overhead | l2tp-session-cell-overhead |
l2tp-session-create-time | l2tp-statistics-since | l2tp-control-tx-packets |
l2tp-control-rx-packets | l2tp-data-tx-packets | l2tp-data-rx-packets | l2tp-control-tx-bytes |
l2tp-control-rx-bytes | l2tp-data-tx-bytes | l2tp-data-rx-bytes | l2tp-error-tx-packets |
l2tp-error-rx-packets | l2tp-create-time | l2tp-up-time | l2tp-idle-time)*>
<!ATTLIST l2tp-session-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-session-firewall-filter (#PCDATA)>

<!ELEMENT l2tp-session-framing-type (#PCDATA)>

<!ELEMENT l2tp-session-interface-id (#PCDATA)>

<!ELEMENT l2tp-session-interface-unit (#PCDATA)>

<!ELEMENT l2tp-session-lcp-renegotiation (#PCDATA)>

<!ELEMENT l2tp-session-local-id (#PCDATA)>

<!ELEMENT l2tp-session-local-ip (#PCDATA)>

<!ELEMENT l2tp-session-local-mru (#PCDATA)>

<!ELEMENT l2tp-session-local-name (#PCDATA)>

<!ELEMENT l2tp-session-mode (#PCDATA)>

<!ELEMENT l2tp-session-own-ip (#PCDATA)>

<!ELEMENT l2tp-session-peer-ip (#PCDATA)>

<!ELEMENT l2tp-session-policer-bandwidth (#PCDATA)>

<!ELEMENT l2tp-session-policer-burstsize (#PCDATA)>

<!ELEMENT l2tp-session-policer-exclude-bandwidth (#PCDATA)>

<!ELEMENT l2tp-session-remote-id (#PCDATA)>

<!ELEMENT l2tp-session-remote-ip (#PCDATA)>

<!ELEMENT l2tp-session-remote-mru (#PCDATA)>

<!ELEMENT l2tp-session-remote-name (#PCDATA)>

<!ELEMENT l2tp-session-rx-speed (#PCDATA)>
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<!ELEMENT l2tp-session-state (#PCDATA)>

<!ELEMENT l2tp-session-table (l2tp-session-entry)*>
<!ATTLIST l2tp-session-table heading CDATA #IMPLIED>

<!ELEMENT l2tp-session-tx-speed (#PCDATA)>

<!ELEMENT l2tp-session-user-name (#PCDATA)>

<!ELEMENT l2tp-sessions (#PCDATA)>

<!ELEMENT l2tp-statistics-since (#PCDATA)>

<!ELEMENT l2tp-summary-table (l2tp-tunnels | l2tp-sessions | l2tp-error-tx-packets |
l2tp-error-rx-packets | l2tp-control-tx-packets | l2tp-control-rx-packets |
l2tp-interface-error-tx-packets | l2tp-interface-error-rx-packets |
l2tp-interface-control-tx-packets | l2tp-interface-control-rx-packets |
l2tp-control-memory-bytes | l2tp-data-tx-packets | l2tp-data-rx-packets |
l2tp-interface-data-tx-packets | l2tp-interface-data-rx-packets | l2tp-data-memory-bytes |
l2tp-interface-name)*>
<!ATTLIST l2tp-summary-table junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-tunnel-clear-entry (l2tp-tunnel-local-id)*>
<!ATTLIST l2tp-tunnel-clear-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-tunnel-entry (l2tp-tunnel-local-id | l2tp-tunnel-remote-id |
l2tp-tunnel-remote-ip | l2tp-tunnel-state | l2tp-tunnel-session-count | l2tp-tunnel-local-ip |
l2tp-tunnel-remote-name | l2tp-tunnel-local-name | l2tp-tunnel-maximum-sessions |
l2tp-tunnel-window-size | l2tp-tunnel-hello-interval | l2tp-tunnel-tos-reflect |
l2tp-statistics-since | l2tp-control-tx-packets | l2tp-control-rx-packets |
l2tp-data-tx-packets | l2tp-data-rx-packets | l2tp-control-tx-bytes | l2tp-control-rx-bytes |
l2tp-data-tx-bytes | l2tp-data-rx-bytes | l2tp-error-tx-packets | l2tp-error-rx-packets |
l2tp-create-time | l2tp-up-time | l2tp-idle-time)*>
<!ATTLIST l2tp-tunnel-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2tp-tunnel-hello-interval (#PCDATA)>

<!ELEMENT l2tp-tunnel-local-id (#PCDATA)>

<!ELEMENT l2tp-tunnel-local-ip (#PCDATA)>

<!ELEMENT l2tp-tunnel-local-name (#PCDATA)>

<!ELEMENT l2tp-tunnel-maximum-sessions (#PCDATA)>

<!ELEMENT l2tp-tunnel-remote-id (#PCDATA)>

<!ELEMENT l2tp-tunnel-remote-ip (#PCDATA)>

<!ELEMENT l2tp-tunnel-remote-name (#PCDATA)>

<!ELEMENT l2tp-tunnel-session-count (#PCDATA)>

<!ELEMENT l2tp-tunnel-state (#PCDATA)>

<!ELEMENT l2tp-tunnel-table (l2tp-tunnel-entry)*>
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<!ATTLIST l2tp-tunnel-table heading CDATA #IMPLIED>

<!ELEMENT l2tp-tunnel-tos-reflect (#PCDATA)>

<!ELEMENT l2tp-tunnel-window-size (#PCDATA)>

<!ELEMENT l2tp-tunnels (#PCDATA)>

<!ELEMENT l2tp-up-time (#PCDATA)>

<!ELEMENT land-attack (#PCDATA)>

<!ELEMENT last-detected-event (#PCDATA)>

<!ELEMENT last-detected-event-time (#PCDATA)>

<!ELEMENT last-reset-time (#PCDATA)>

<!ELEMENT latch-deadlock-duration (#PCDATA)>

<!ELEMENT load-balancer-entries (load-balancer-entry)*>

<!ELEMENT load-balancer-entry (cpu-name | idle | system | output | freeback | input-1 | input-2)*>

<!ELEMENT local-ip-address (#PCDATA)>

<!ELEMENT local-port (#PCDATA)>

<!ELEMENT long-packet (#PCDATA)>

<!ELEMENT lsqinfo-cpu-usage-information (cpu-role-name | one-second-usage | five-second-usage | fragmenter-entries | quality-of-service-entries | sequencer-entries | load-balancer-entries)*>
<!ATTLIST lsqinfo-cpu-usage-information junos:style CDATA #IMPLIED>

<!ELEMENT max-term-percentage (#PCDATA)>

<!ELEMENT max-terms (#PCDATA)>

<!ELEMENT maximum (#PCDATA)>

<!ELEMENT maximum-concurrent-calls (#PCDATA)>

<!ELEMENT maximum-inactivity-time (minimum | maximum | default)*>

<!ELEMENT maximum-net-propagation-delay (#PCDATA)>

<!ELEMENT maximum-waiting-delay (#PCDATA)>

<!ELEMENT media-card-name (#PCDATA)>

<!ELEMENT media-handler-name (#PCDATA)>

<!ELEMENT media-service-entry (media-service-name | media-service-nat-pool)*>

<!ELEMENT media-service-name (#PCDATA)>

<!ELEMENT media-service-nat-pool (#PCDATA)>

<!ELEMENT media-service-ref-entry (media-service-ref-name)*>

<!ELEMENT media-service-ref-name (#PCDATA)>

<!ELEMENT memlimit-drops (#PCDATA)>

<!ELEMENT memory-pool-chunks-num (#PCDATA)>

<!ELEMENT memory-pool-free-chunks-num (#PCDATA)>

<!ELEMENT memory-pool-name (#PCDATA)>

<!ELEMENT message-counters (register-new | invite-new | reinvites | invite-retransmits | response-provisional | response-invite-ok | response-non-invite-ok | response-redir | response-request-failure | response-server-failure | response-global-failure | response-invalid | response-retransmits | ack-valid | ack-invalid | ack-retransmits | bye-valid | bye-invalid | cancel-valid | cancel-invalid | subscribe-valid | subscribe-invalid | notify-valid | notify-invalid | options-valid | options-invalid | info-valid | info-invalid | update-valid | update-invalid | refer-valid | refer-invalid)*>

<!ELEMENT messages-received (#PCDATA)>

<!ELEMENT messages-sent (#PCDATA)>

<!ELEMENT minimum (#PCDATA)>

<!ELEMENT nat-ports-exhausted (#PCDATA)>

<!ELEMENT new-flow-accepts (#PCDATA)>

<!ELEMENT new-flow-counters (new-flow-accepts | new-flow-discards | new-flow-rejects)*>

<!ELEMENT new-flow-discards (#PCDATA)>

<!ELEMENT new-flow-rejects (#PCDATA)>

<!ELEMENT no-dscp-bit-mirroring (#PCDATA)>

<!ELEMENT non-ip-packets (#PCDATA)>

<!ELEMENT non-ipv4 (#PCDATA)>

<!ELEMENT non-syn-first-packet (#PCDATA)>

<!ELEMENT notification-regulation (#PCDATA)>

<!ELEMENT notify-invalid (#PCDATA)>

<!ELEMENT notify-valid (#PCDATA)>

<!ELEMENT number-of-filters (#PCDATA)>

<!ELEMENT number-of-terms (#PCDATA)>

<!ELEMENT octets-received (#PCDATA)>

<!ELEMENT octets-sent (#PCDATA)>

<!ELEMENT one-second-usage (#PCDATA)>

<!ELEMENT options-invalid (#PCDATA)>

<!ELEMENT options-valid (#PCDATA)>

<!ELEMENT output (#PCDATA)>

<!ELEMENT output-fragments (#PCDATA)>

<!ELEMENT output-retry (#PCDATA)>

<!ELEMENT overload-control-entry (queue-limit-percentage | reject-new-calls-threshold | reject-all-commands-threshold)*>

<!ELEMENT packet-processing-error (#PCDATA)>

<!ELEMENT packets (#PCDATA)>

<!ELEMENT parser-counters (syntax-errors | content-errors | unknown-methods)*>

<!ELEMENT per-command-header-name (#PCDATA)>

<!ELEMENT pgcp-conversation (pgcp-flow-table-conv-initiator | pgcp-flow-table-conv-responder | service-pgcp-flow-table)*>

<!ELEMENT pgcp-flow-destination-ip (#PCDATA)>

<!ELEMENT pgcp-flow-destination-port (#PCDATA)>

<!ELEMENT pgcp-flow-direction (#PCDATA)>

<!ELEMENT pgcp-flow-entry (pgcp-flow-protocol | pgcp-flow-source-ip | pgcp-flow-source-port | pgcp-flow-destination-ip | pgcp-flow-destination-port | pgcp-flow-state | pgcp-flow-direction | pgcp-flow-frame-counter | pgcp-flow-gate-id | pgcp-flow-nat | pgcp-flow-table-byte-count | source-routing-instance | destination-routing-instance | pgcp-flow-table-tcp-window-size | pgcp-flow-table-tcp-acknowledge | pgcp-flow-table-tcp-tickle | pgcp-flow-table-role | pgcp-flow-table-timeout | pgcp-flow-table-protocol-detail | flow-gate-tman-policing | flow-gate-sdr | flow-gate-sdr-mbs | flow-gate-pdr | flow-gate-pdr-mbs)*>

<!ELEMENT pgcp-flow-frame-counter (#PCDATA)>

<!ELEMENT pgcp-flow-gate-id (#PCDATA)>

<!ELEMENT pgcp-flow-nat (pgcp-flow-nat-ip | pgcp-flow-nat-port | pgcp-flow-translated-ip | pgcp-flow-translated-port)*>
<!ATTLIST pgcp-flow-nat nat-type CDATA #IMPLIED>

<!ELEMENT pgcp-flow-nat-ip (#PCDATA)>

<!ELEMENT pgcp-flow-nat-port (#PCDATA)>

<!ELEMENT pgcp-flow-protocol (#PCDATA)>

<!ELEMENT pgcp-flow-source-ip (#PCDATA)>

<!ELEMENT pgcp-flow-source-port (#PCDATA)>

<!ELEMENT pgcp-flow-state (#PCDATA)>

<!ELEMENT pgcp-flow-table-byte-count (#PCDATA)>

<!ELEMENT pgcp-flow-table-conv-initiator (#PCDATA)>

<!ELEMENT pgcp-flow-table-conv-responder (#PCDATA)>

<!ELEMENT pgcp-flow-table-protocol-detail (#PCDATA)>

<!ELEMENT pgcp-flow-table-role (#PCDATA)>

<!ELEMENT pgcp-flow-table-tcp-acknowledge (#PCDATA)>

<!ELEMENT pgcp-flow-table-tcp-tickle (#PCDATA)>

<!ELEMENT pgcp-flow-table-tcp-window-size (#PCDATA)>

<!ELEMENT pgcp-flow-table-timeout (#PCDATA)>

<!ELEMENT pgcp-flow-translated-ip (#PCDATA)>

<!ELEMENT pgcp-flow-translated-port (#PCDATA)>

<!ELEMENT pgcp-per-service-set-conversation (service-set-name | interface-name | pgcp-conversation)*>

<!ELEMENT pgcp-per-service-set-flow-table (service-set-name | interface-name | service-pgcp-flow-table)*>

<!ELEMENT pgcpd-active-configuration (virtual-interface-entry | controller-entry | h248-timers-entry | h248-options-entry | base-root-entry | h248-segmentation-properties-entry | h248-diffserv-entry | h248-notification-behavior-entry | h248-application-data-inactivity-detection-entry | h248-event-timestamp-notification-entry | inactivity-timer-entry | fast-update-filters-entry | overload-control-entry | gateway-entry | rule-ref-entry | rule-entry | service-pic-entry | service-set-entry | firewall-entry | pgcpd-config)*>

<!ELEMENT pgcpd-config (media-service-entry | virtual-interface-entry | gateway-entry | rule-entry | service-set-entry | service-pic-entry | firewall-entry)*>

<!ELEMENT pic-name (#PCDATA)>

<!ELEMENT pic-status (#PCDATA)>

<!ELEMENT ping-duplicate-sequence-number (#PCDATA)>

<!ELEMENT ping-mismatched-sequence-number (#PCDATA)>

<!ELEMENT platform (#PCDATA)>

<!ELEMENT plugin-id (#PCDATA)>

<!ELEMENT plugin-name (#PCDATA)>

<!ELEMENT plugins-configured (#PCDATA)>

<!ELEMENT pool-address-end (#PCDATA)>

<!ELEMENT pool-address-range (#PCDATA)>

<!ELEMENT pool-address-range-list (#PCDATA)>

<!ELEMENT pool-address-start (#PCDATA)>

<!ELEMENT pool-addresses-in-use (#PCDATA)>

<!ELEMENT pool-max-ports-in-use (#PCDATA)>

<!ELEMENT pool-name (#PCDATA)>

<!ELEMENT pool-out-of-address-errors (#PCDATA)>

<!ELEMENT pool-out-of-port-errors (#PCDATA)>

<!ELEMENT pool-port-high (#PCDATA)>

<!ELEMENT pool-port-low (#PCDATA)>

<!ELEMENT pool-port-range (#PCDATA)>

<!ELEMENT pool-ports-in-use (#PCDATA)>

<!ELEMENT process-id (#PCDATA)>

<!ELEMENT protocol-errors (#PCDATA)>

<!ELEMENT protocol-inspected-flow (#PCDATA)>

<!ELEMENT protocol-inspection-bytes (#PCDATA)>

<!ELEMENT protocol-inspection-flow (#PCDATA)>

<!ELEMENT protocol-inspection-flow-protocol-identified (#PCDATA)>

<!ELEMENT protocol-inspection-http-uri (#PCDATA)>

<!ELEMENT protocol-inspection-http-uri-matched (#PCDATA)>

<!ELEMENT protocol-inspection-packets (#PCDATA)>

<!ELEMENT protocol-inspection-wap-uri (#PCDATA)>

<!ELEMENT protocol-inspection-wap-uri-matched (#PCDATA)>

<!ELEMENT quality-of-service-entries (quality-of-service-entry)*>

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<!ELEMENT quality-of-service-entry (cpu-name | idle | timer | system | output | input |
fragment-output | bypass-output | free-frame)*>

<!ELEMENT queue-limit-percentage (#PCDATA)>

<!ELEMENT radius-accounting-server-information-entry (radius-server-ip-address |
radius-server-state | radius-server-udp-port | radius-server-retry-count |
radius-server-timeout | radius-server-pending-requests |
radius-server-maximum-sessions | radius-server-dead-time |
radius-server-secret-type)*>

<!ELEMENT radius-accounting-statistic-information-entry
(radius-server-statistics-entry-header | radius-server-profile-name |
radius-server-ip-address | radius-server-udp-port | radius-statistic-requests |
radius-statistic-start-requests | radius-statistic-interim-requests |
radius-statistic-stop-requests | radius-statistic-rollover-requests |
radius-statistic-retransmissions | radius-statistic-responses |
radius-statistic-start-responses | radius-statistic-interim-responses |
radius-statistic-stop-responses | radius-statistic-malformed-responses |
radius-statistic-bad-authenticators | radius-statistic-requests-pending |
radius-statistic-request-timeouts | radius-statistic-unknown-responses |
radius-statistic-packets-dropped)*>

<!ELEMENT radius-authentication-server-information-entry (radius-server-ip-address |
radius-server-state | radius-server-udp-port | radius-server-retry-count |
radius-server-timeout | radius-server-pending-requests |
radius-server-maximum-sessions | radius-server-dead-time |
radius-server-secret-type)*>

<!ELEMENT radius-authentication-statistic-information-entry
(radius-server-statistics-entry-header | radius-server-profile-name |
radius-server-ip-address | radius-server-udp-port | radius-statistic-access-requests |
radius-statistic-rollover-requests | radius-statistic-retransmissions |
radius-statistic-access-accepts | radius-statistic-access-rejects |
radius-statistic-access-challenges | radius-statistic-malformed-responses |
radius-statistic-bad-authenticators | radius-statistic-requests-pending |
radius-statistic-request-timeouts | radius-statistic-unknown-responses |
radius-statistic-packets-dropped)*>

<!ELEMENT radius-client-password (#PCDATA)>

<!ELEMENT radius-client-user-name (#PCDATA)>

<!ELEMENT radius-profile-access-test-detail-result (radius-profile-name |
radius-client-user-name | radius-client-password | radius-profile-num-servers |
radius-server-ip-address | radius-server-udp-port | radius-server-source-address |
radius-server-timeout | radius-server-retry-count | radius-server-secret |
radius-server-status | radius-server-attempts | radius-server-attribute-name |
radius-server-attribute-len | radius-server-attribute-value)*>

<!ELEMENT radius-profile-access-test-result (radius-profile-name |
radius-client-user-name | radius-client-password | radius-profile-num-servers |
radius-server-ip-address | radius-server-udp-port | radius-server-source-address |
radius-server-timeout | radius-server-retry-count | radius-server-secret |
radius-server-status | radius-server-attempts)*>

<!ELEMENT radius-profile-name (#PCDATA)>
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<!ELEMENT radius-profile-num-servers (#PCDATA)>

<!ELEMENT radius-server-access-test-result (radius-server-ip-address | radius-server-udp-port | radius-server-source-address | radius-server-timeout | radius-server-retry-count | radius-server-secret | radius-client-user-name | radius-client-password | radius-server-status)*>

<!ELEMENT radius-server-attempts (#PCDATA)>

<!ELEMENT radius-server-attribute-len (#PCDATA)>

<!ELEMENT radius-server-attribute-name (#PCDATA)>

<!ELEMENT radius-server-attribute-value (#PCDATA)>

<!ELEMENT radius-server-dead-time (#PCDATA)>

<!ELEMENT radius-server-information-table-header (#PCDATA)>

<!ELEMENT radius-server-ip-address (#PCDATA)>

<!ELEMENT radius-server-maximum-sessions (#PCDATA)>

<!ELEMENT radius-server-pending-requests (#PCDATA)>

<!ELEMENT radius-server-profile-name (#PCDATA)>

<!ELEMENT radius-server-retry-count (#PCDATA)>

<!ELEMENT radius-server-secret (#PCDATA)>

<!ELEMENT radius-server-secret-type (#PCDATA)>

<!ELEMENT radius-server-source-address (#PCDATA)>

<!ELEMENT radius-server-state (#PCDATA)>

<!ELEMENT radius-server-statistics-entry-header (#PCDATA)>

<!ELEMENT radius-server-status (#PCDATA)>

<!ELEMENT radius-server-timeout (#PCDATA)>

<!ELEMENT radius-server-udp-port (#PCDATA)>

<!ELEMENT radius-statistic-access-accepts (#PCDATA)>

<!ELEMENT radius-statistic-access-challenges (#PCDATA)>

<!ELEMENT radius-statistic-access-rejects (#PCDATA)>

<!ELEMENT radius-statistic-access-requests (#PCDATA)>

<!ELEMENT radius-statistic-bad-authenticators (#PCDATA)>

<!ELEMENT radius-statistic-interim-requests (#PCDATA)>

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<!ELEMENT radius-statistic-interim-responses (#PCDATA)>
<!ELEMENT radius-statistic-malformed-responses (#PCDATA)>
<!ELEMENT radius-statistic-packets-dropped (#PCDATA)>
<!ELEMENT radius-statistic-request-timeouts (#PCDATA)>
<!ELEMENT radius-statistic-requests (#PCDATA)>
<!ELEMENT radius-statistic-requests-pending (#PCDATA)>
<!ELEMENT radius-statistic-responses (#PCDATA)>
<!ELEMENT radius-statistic-retransmissions (#PCDATA)>
<!ELEMENT radius-statistic-rollover-requests (#PCDATA)>
<!ELEMENT radius-statistic-start-requests (#PCDATA)>
<!ELEMENT radius-statistic-start-responses (#PCDATA)>
<!ELEMENT radius-statistic-stop-requests (#PCDATA)>
<!ELEMENT radius-statistic-stop-responses (#PCDATA)>
<!ELEMENT radius-statistic-unknown-responses (#PCDATA)>
<!ELEMENT reassembly (#PCDATA)>
<!ELEMENT received-dscp (#PCDATA)>
<!ELEMENT received-forwarding-class (#PCDATA)>
<!ELEMENT refer-invalid (#PCDATA)>
<!ELEMENT refer-valid (#PCDATA)>
<!ELEMENT register-new (#PCDATA)>
<!ELEMENT reinvites (#PCDATA)>
<!ELEMENT reject-all-commands-threshold (#PCDATA)>
<!ELEMENT reject-new-calls-threshold (#PCDATA)>
<!ELEMENT remote-ip-address (#PCDATA)>
<!ELEMENT remote-port (#PCDATA)>
<!ELEMENT replication-socket (#PCDATA)>
<!ELEMENT requested-timestamp (#PCDATA)>
<!ELEMENT response-global-failure (#PCDATA)>
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<!ELEMENT response-invalid (#PCDATA)>

<!ELEMENT response-invite-ok (#PCDATA)>

<!ELEMENT response-non-invite-ok (#PCDATA)>

<!ELEMENT response-provisional (#PCDATA)>

<!ELEMENT response-redir (#PCDATA)>

<!ELEMENT response-request-failure (#PCDATA)>

<!ELEMENT response-retransmits (#PCDATA)>

<!ELEMENT response-server-failure (#PCDATA)>

<!ELEMENT restart-pgcp-service-information (gateway-name | platform | process-id)*>

<!ELEMENT root-termination-information (#PCDATA)>

<!ELEMENT routing-instance (#PCDATA)>

<!ELEMENT rtcp-mbs (#PCDATA)>

<!ELEMENT rtcp-pdr (#PCDATA)>

<!ELEMENT rtcp-sdr (#PCDATA)>

<!ELEMENT rule-entry (rule-name | rule-gateway-name | media-service-ref-entry)*>

<!ELEMENT rule-gateway-name (#PCDATA)>

<!ELEMENT rule-name (#PCDATA)>

<!ELEMENT rule-ref-entry (rule-ref-name)*>

<!ELEMENT rule-ref-name (#PCDATA)>

<!ELEMENT sequencer-entries (sequencer-entry)*>

<!ELEMENT sequencer-entry (cpu-name | idle | system | input-lfi | input-fragments |
output-fragments | output-retry)*>

<!ELEMENT service-cos-statistics-entry (interface-name | service-set-name |
cos-stats-service-set-dscp-information |
cos-stats-service-set-forwarding-class-information)*>

<!ELEMENT service-cos-statistics-information (service-cos-statistics-entry)*>
<!ATTLIST service-cos-statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT service-crtp-extensive-information (#PCDATA)>

<!ELEMENT service-crtp-flow-table (crtp-flow-entry)*>

<!ELEMENT service-crtp-flow-table-information (crtp-per-interface-flow-table)*>

<!ELEMENT service-crtp-params-information (#PCDATA)>
```

```
<!ELEMENT service-identification-statistics (interface-name | interfaces | packets |
bytes | errored-packets | errored-bytes | packet-processing-error |
errored-packets-tcp-malformed | errored-packets-wap-invalid-transaction |
errored-packets-wap-transaction-in-error | errored-packets-http-transaction-in-error |
header-examination-packets | header-examination-bytes | header-examination-flow |
header-examination-flow-matched | header-examination-protocol-required |
header-examination-http-protocol-required | header-examination-wap-protocol-required |
protocol-inspected-flow | protocol-inspection-flow | protocol-inspection-packets |
protocol-inspection-bytes | protocol-inspection-flow-protocol-identified |
protocol-inspection-http-uri | protocol-inspection-http-uri-matched |
protocol-inspection-wap-uri | protocol-inspection-wap-uri-matched |
wap-transaction-created | wap-transaction-maximum | wap-transaction-freed |
wap-transaction-idle-freed | http-transaction-created | http-transaction-maximum |
http-transaction-freed | http-transaction-idle-freed | uri-processing-error |
uri-error-failed-to-process | uri-error-too-long | transaction-error-failed-to-parse |
uri-error-no-system-resources | header-examination-failed-configuration |
uri-examination-failed-configuration)*>

<!ELEMENT service-identification-statistics-information
(service-identification-statistics)*>

<!ELEMENT service-ids-flow-table-information (ids-show-summary |
ids-per-service-set-flow-table)*>

<!ELEMENT service-l2tp-multilink-clear-information (l2tp-multilink-clear-entry)*>

<!ELEMENT service-l2tp-session-clear-information (l2tp-session-clear-entry)*>

<!ELEMENT service-l2tp-session-information (l2tp-per-tunnel-session-table)*>

<!ELEMENT service-l2tp-summary-information (l2tp-summary-table)*>

<!ELEMENT service-l2tp-tunnel-clear-information (l2tp-tunnel-clear-entry)*>

<!ELEMENT service-l2tp-tunnel-information (l2tp-per-tunnel-group-tunnel-table)*>

<!ELEMENT service-l2tp-user-information (l2tp-per-tunnel-user-table)*>

<!ELEMENT service-msp-flow-drain (interface-name | service-set-name |
flows-removed)*>

<!ELEMENT service-msp-flow-drain-information (service-msp-flow-drain)*>

<!ELEMENT service-nat-ipv6-multicast-interfaces (v6-multicast-interface-name |
v6-multicast-configured-status | v6-multicast-operation-status | v6-multicast-by-all)*>

<!ELEMENT service-nat-ipv6-multicast-interfaces-information
(service-nat-ipv6-multicast-interfaces)*>
<!ATTLIST service-nat-ipv6-multicast-interfaces-information junos:style CDATA
#IMPLIED>

<!ELEMENT service-nat-pool (pool-name | translation-type | pool-address-start |
pool-address-end | pool-address-range | pool-address-range-list | pool-port-low |
pool-port-high | pool-port-range | pool-ports-in-use | pool-out-of-port-errors |
pool-out-of-address-errors | pool-max-ports-in-use | pool-addresses-in-use)*>
```

<!ELEMENT service-nat-pool-information (sfw-per-service-set-nat-pool)*>

<!ELEMENT service-pgcp-conversation-information
(pgcp-per-service-set-conversation)*>

<!ELEMENT service-pgcp-debug-applicationq-latency
(debug-applicationq-latency-information)*>

<!ELEMENT service-pgcp-debug-applicationq-size
(debug-applicationq-size-information)*>

<!ELEMENT service-pgcp-debug-commit-latency (debug-commit-latency-information)*>

<!ELEMENT service-pgcp-debug-mem-mgmt-location
(debug-mem-mgmt-location-information)*>

<!ELEMENT service-pgcp-debug-mem-mgmt-memory-usage
(debug-mem-mgmt-memory-usage-information)*>

<!ELEMENT service-pgcp-debug-mem-mgmt-type (debug-mem-mgmt-type-information)*>

<!ELEMENT service-pgcp-debug-profiling-applicationq-latency-information (#PCDATA)>

<!ELEMENT service-pgcp-debug-profiling-datastore-commit-latency-information
(#PCDATA)>

<!ELEMENT service-pgcp-debug-profiling-resumeq-latency-information (#PCDATA)>

<!ELEMENT service-pgcp-debug-profiling-waitq-latency-information (#PCDATA)>

<!ELEMENT service-pgcp-debug-profiling-workq-latency-information (#PCDATA)>

<!ELEMENT service-pgcp-debug-resumeq-latency
(debug-resumeq-latency-information)*>

<!ELEMENT service-pgcp-debug-resumeq-size (debug-resumeq-size-information)*>

<!ELEMENT service-pgcp-debug-roundtrip (debug-roundtrip-information)*>

<!ELEMENT service-pgcp-debug-waitq-latency (debug-waitq-latency-information)*>

<!ELEMENT service-pgcp-debug-waitq-size (debug-waitq-size-information)*>

<!ELEMENT service-pgcp-debug-workq-latency (debug-workq-latency-information)*>

<!ELEMENT service-pgcp-debug-workq-size (debug-workq-size-information)*>

<!ELEMENT service-pgcp-flow-count (interface-name | service-set-name | flow-count)*>

<!ELEMENT service-pgcp-flow-count-information (service-pgcp-flow-count)*>

<!ELEMENT service-pgcp-flow-table (pgcp-flow-entry)*>
<!ATTLIST service-pgcp-flow-table heading CDATA #IMPLIED>

<!ELEMENT service-pgcp-flow-table-information (pgcp-per-service-set-flow-table)*>

```
<!ELEMENT service-pgcp-gate-entry-information (gate-id | gate-state | gate-direction |
gate-action | source-routing-instance | destination-routing-instance | gate-service-set-id |
media-card-name | media-handler-name | termination-id-string |
gate-remote-source-address | gate-remote-source-port |
gate-remote-destination-address | gate-remote-destination-port |
gate-local-source-address | gate-local-source-port | gate-local-destination-address |
gate-local-destination-port | gate-transport | gate-rtcp-shadow | gate-latch | gate-dscp |
gate-tman-policing | gate-sdr | gate-pdr | gate-mbs | rtcp-sdr | rtcp-pdr | rtcp-mbs |
gate-fuf-policing | gate-green-action | gate-yellow-action | gate-red-action |
gate-output-packets | gate-input-packets | gate-dropped-packets | gate-lost-rtp-packets |
gate-fractional-lost-rtp-packets | gate-rtcp-information | gate-measured-rate |
service-rate-limit-information | gate-fuf-statistics-information | gate-mirroring-state |
gate-mirroring-correlation-number | gate-mirroring-target-id | gate-mirroring-direction)*>

<!ELEMENT service-pgcp-gates (gateway-entry | service-pgcp-gate-entry-information |
service-pgcp-gates-count)*>
<!ATTLIST service-pgcp-gates junos:style CDATA #IMPLIED>

<!ELEMENT service-pgcp-gates-count (gate-count | gateway-name)*>

<!ELEMENT service-pgcp-gates-drain-information (gateway-collections-number)*>

<!ELEMENT service-pgcp-stat-h248-per-command (command-name | commands-total |
commands-wildcard | commands-success | commands-error)*>

<!ELEMENT service-pgcp-stat-h248-per-command-header
(per-command-header-name)*>

<!ELEMENT service-pgcp-statistics-drain-information (#PCDATA)>

<!ELEMENT service-pgcp-statistics-gateway (gateway-entry | usage-counters-entry |
service-pgcp-statistics-h248 | service-pgcp-stat-h248-per-command-header |
service-pgcp-stat-h248-per-command)*>

<!ELEMENT service-pgcp-statistics-h248 (messages-received | octets-received |
messages-sent | octets-sent | protocol-errors | transport-losses | last-detected-event |
last-detected-event-time | last-reset-time)*>

<!ELEMENT service-pgcp-termination-entry-information (termination-id-string |
termination-state | termination-duration | termination-h248-dump)*>

<!ELEMENT service-pgcp-termination-gates-information (gate-id | gate-direction |
gate-state | gate-action)*>

<!ELEMENT service-pgcp-terminations (gateway-entry |
service-pgcp-termination-entry-information | service-pgcp-termination-gates-information |
service-pgcp-terminations-count)*>
<!ATTLIST service-pgcp-terminations junos:style CDATA #IMPLIED>

<!ELEMENT service-pgcp-terminations-count (termination-count | gateway-name)*>

<!ELEMENT service-pic-entry (pic-name | pic-status)*>

<!ELEMENT service-rate-limit-byte-count (#PCDATA)>

<!ELEMENT service-rate-limit-entry (service-rate-limit-mark-color |
service-rate-limit-packet-count | service-rate-limit-byte-count)*>
```

<!ELEMENT service-rate-limit-information (service-rate-limit-entry)*>

<!ELEMENT service-rate-limit-mark-color (#PCDATA)>

<!ELEMENT service-rate-limit-packet-count (#PCDATA)>

<!ELEMENT service-set-bytes-used (#PCDATA)>

<!ELEMENT service-set-cpu-statistics (service-set-name | interface-name | cpu-utilization-percent)*>

<!ELEMENT service-set-cpu-statistics-information (service-set-cpu-statistics)*>

<!ELEMENT service-set-cpu-utilization (#PCDATA)>

<!ELEMENT service-set-entry (service-set-name | id | rule-ref-entry)*>

<!ELEMENT service-set-memory-statistics (service-set-name | interface-name | bytes-used)*>

<!ELEMENT service-set-memory-statistics-information (service-set-memory-statistics)*>

<!ELEMENT service-set-name (#PCDATA)>

<!ELEMENT service-set-packet-drop-statistics (service-set-packet-drops)*>

<!ELEMENT service-set-packet-drops (service-set-name | interface-name | cpulimit-drops | memlimit-drops | flowlimit-drops)*>

<!ELEMENT service-set-percent-bytes-used (#PCDATA)>

<!ELEMENT service-set-percent-policy-bytes-used (#PCDATA)>

<!ELEMENT service-set-plugin-information (service-set-name | service-set-state | plugins-configured | plugin-name | plugin-id)*>

<!ELEMENT service-set-plugin-summary (interface-name | service-set-plugin-information)*>

<!ELEMENT service-set-policy-bytes-used (#PCDATA)>

<!ELEMENT service-set-service-type-entry (service-type | service-sets-configured | service-set-bytes-used | service-set-percent-bytes-used | service-set-cpu-utilization | service-set-policy-bytes-used | service-set-percent-policy-bytes-used)*>

<!ELEMENT service-set-state (#PCDATA)>

<!ELEMENT service-set-summary-information (service-set-summary-information-entry)*>
<!ATTLIST service-set-summary-information junos:style CDATA #IMPLIED>

<!ELEMENT service-set-summary-information-entry (interface-name | service-set-service-type-entry)*>

<!ELEMENT service-set-tcp-mss (service-set-name | interface-name | syn-received | syn-modified)*>

```
<!ELEMENT service-set-tcp-mss-statistics (service-set-tcp-mss)*>

<!ELEMENT service-sets-configured (#PCDATA)>

<!ELEMENT service-sfw-conversation-information (sfw-per-service-set-conversation)*>

<!ELEMENT service-sfw-flow-count (interface-name | service-set-name | flow-count)*>

<!ELEMENT service-sfw-flow-count-information (service-sfw-flow-count)*>

<!ELEMENT service-sfw-flow-drain (interface-name | service-set-name |
conversations-removed)*>

<!ELEMENT service-sfw-flow-drain-information (service-sfw-flow-drain)*>

<!ELEMENT service-sfw-flow-table (sfw-flow-entry)*>
<!ATTLIST service-sfw-flow-table heading CDATA #IMPLIED>

<!ELEMENT service-sfw-flow-table-information (sfw-per-service-set-flow-table)*>

<!ELEMENT service-sfw-sip-call-count (interface-name | service-set-name |
sip-call-count)*>

<!ELEMENT service-sfw-sip-call-count-information (service-sfw-sip-call-count)*>

<!ELEMENT service-sfw-sip-call-drain (interface-name | service-set-name |
sip-calls-removed)*>

<!ELEMENT service-sfw-sip-call-drain-information (service-sfw-sip-call-drain)*>

<!ELEMENT service-sfw-sip-call-information (sfw-per-service-set-sip-calls)*>

<!ELEMENT service-sfw-sip-registration-count (interface-name | service-set-name |
sip-registration-count)*>

<!ELEMENT service-sfw-sip-registration-count-information
(service-sfw-sip-registration-count)*>

<!ELEMENT service-sfw-sip-registration-drain (interface-name | service-set-name |
sip-registration-removed)*>

<!ELEMENT service-sfw-sip-registration-drain-information
(service-sfw-sip-registration-drain)*>

<!ELEMENT service-sfw-sip-registration-information
(sfw-per-service-set-sip-registrations)*>

<!ELEMENT service-sfw-statistics-entry (interface-name | sfw-stats-service-set-entry)*>

<!ELEMENT service-sfw-statistics-information (service-sfw-statistics-entry)*>
<!ATTLIST service-sfw-statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT service-state (#PCDATA)>

<!ELEMENT service-type (#PCDATA)>

<!ELEMENT services-l2tp-multilink-information (l2tp-multilink-entry)*>
```

```
<!ELEMENT services-l2tp-radius-accounting-servers-information
(radius-accounting-server-information-entry)*>

<!ELEMENT services-l2tp-radius-accounting-statistics-information
(radius-accounting-statistic-information-entry)*>

<!ELEMENT services-l2tp-radius-authentication-accounting-servers-information
(radius-authentication-server-information-entry |
radius-accounting-server-information-entry)*>

<!ELEMENT services-l2tp-radius-authentication-accounting-statistics-information
(radius-authentication-statistic-information-entry |
radius-accounting-statistic-information-entry)*>

<!ELEMENT services-l2tp-radius-authentication-servers-information
(radius-authentication-server-information-entry)*>

<!ELEMENT services-l2tp-radius-authentication-statistics-information
(radius-authentication-statistic-information-entry)*>

<!ELEMENT services-l2tp-radius-servers-information-table-header
(radius-server-information-table-header | radius-server-profile-name)*>

<!ELEMENT services-pgcpd-root-termination (root-termination-information)*>

<!ELEMENT sfw-conversation (sfw-flow-table-conv-alg | sfw-flow-table-conv-initiator |
sfw-flow-table-conv-responder | service-sfw-flow-table)*>

<!ELEMENT sfw-flow-destination-ip (#PCDATA)>

<!ELEMENT sfw-flow-destination-port (#PCDATA)>

<!ELEMENT sfw-flow-direction (#PCDATA)>

<!ELEMENT sfw-flow-entry (sfw-flow-protocol | sfw-flow-source-ip | sfw-flow-source-port |
sfw-flow-destination-ip | sfw-flow-destination-port | sfw-flow-state | sfw-flow-direction |
sfw-flow-frame-counter | sfw-flow-gate-id | sfw-flow-nat | sfw-flow-table-byte-count |
sfw-flow-table-tcp-window-size | sfw-flow-table-tcp-acknowledge | sfw-flow-table-tcp-tickle
| sfw-flow-table-role | sfw-flow-table-timeout | sfw-flow-table-protocol-detail)*>

<!ELEMENT sfw-flow-frame-counter (#PCDATA)>

<!ELEMENT sfw-flow-gate-id (#PCDATA)>

<!ELEMENT sfw-flow-nat (sfw-flow-nat-ip | sfw-flow-nat-port | sfw-flow-translated-ip |
sfw-flow-translated-port)*>
<!ATTLIST sfw-flow-nat nat-type CDATA #IMPLIED>

<!ELEMENT sfw-flow-nat-ip (#PCDATA)>

<!ELEMENT sfw-flow-nat-port (#PCDATA)>

<!ELEMENT sfw-flow-protocol (#PCDATA)>

<!ELEMENT sfw-flow-source-ip (#PCDATA)>
```

```
<!ELEMENT sfw-flow-source-port (#PCDATA)>

<!ELEMENT sfw-flow-state (#PCDATA)>

<!ELEMENT sfw-flow-table-byte-count (#PCDATA)>

<!ELEMENT sfw-flow-table-conv-alg (#PCDATA)>

<!ELEMENT sfw-flow-table-conv-initiator (#PCDATA)>

<!ELEMENT sfw-flow-table-conv-responder (#PCDATA)>

<!ELEMENT sfw-flow-table-protocol-detail (#PCDATA)>

<!ELEMENT sfw-flow-table-role (#PCDATA)>

<!ELEMENT sfw-flow-table-tcp-acknowledge (#PCDATA)>

<!ELEMENT sfw-flow-table-tcp-tickle (#PCDATA)>

<!ELEMENT sfw-flow-table-tcp-window-size (#PCDATA)>

<!ELEMENT sfw-flow-table-timeout (#PCDATA)>

<!ELEMENT sfw-flow-translated-ip (#PCDATA)>

<!ELEMENT sfw-flow-translated-port (#PCDATA)>

<!ELEMENT sfw-per-service-set-conversation (service-set-name | interface-name |
sfw-conversation)*>

<!ELEMENT sfw-per-service-set-flow-table (service-set-name | interface-name |
service-sfw-flow-table)*>

<!ELEMENT sfw-per-service-set-nat-pool (service-set-name | interface-name |
service-nat-pool)*>
<!ATTLIST sfw-per-service-set-nat-pool junos:style CDATA #IMPLIED>

<!ELEMENT sfw-per-service-set-sip-calls (interface-name | service-set-name |
sfw-sip-calls)*>

<!ELEMENT sfw-per-service-set-sip-registrations (interface-name | service-set-name |
sfw-sip-registers)*>

<!ELEMENT sfw-sip-call-entry (sfw-sip-from | sfw-sip-to | sfw-sip-callid |
sfw-sip-number-control-iflows | sfw-sip-number-control-rflows | sfw-sip-control-iflow-table |
sfw-sip-control-rflow-table | sfw-sip-number-contact-iflows | sfw-sip-number-contact-rflows
| sfw-sip-contact-iflow-table | sfw-sip-contact-rflow-table | sfw-sip-number-media-iflows |
sfw-sip-number-media-rflows | sfw-sip-media-iflow-table | sfw-sip-media-rflow-table)*>

<!ELEMENT sfw-sip-callid (#PCDATA)>

<!ELEMENT sfw-sip-calls (sfw-sip-call-entry)*>

<!ELEMENT sfw-sip-contact-iflow-table (#PCDATA)>

<!ELEMENT sfw-sip-contact-rflow-table (#PCDATA)>
```

<!ELEMENT sfw-sip-control-iflow-table (#PCDATA)>

<!ELEMENT sfw-sip-control-rflow-table (#PCDATA)>

<!ELEMENT sfw-sip-from (#PCDATA)>

<!ELEMENT sfw-sip-media-iflow-table (#PCDATA)>

<!ELEMENT sfw-sip-media-rflow-table (#PCDATA)>

<!ELEMENT sfw-sip-number-contact-iflows (#PCDATA)>

<!ELEMENT sfw-sip-number-contact-rflows (#PCDATA)>

<!ELEMENT sfw-sip-number-control-iflows (#PCDATA)>

<!ELEMENT sfw-sip-number-control-rflows (#PCDATA)>

<!ELEMENT sfw-sip-number-media-iflows (#PCDATA)>

<!ELEMENT sfw-sip-number-media-rflows (#PCDATA)>

<!ELEMENT sfw-sip-register-acked EMPTY>

<!ELEMENT sfw-sip-register-address (#PCDATA)>

<!ELEMENT sfw-sip-register-entry (sfw-sip-register-protocol | sfw-sip-register-address | sfw-sip-register-port | sfw-sip-register-acked | sfw-sip-register-expiration | sfw-sip-register-remaining | sfw-sip-from | sfw-sip-to | sfw-sip-callid)*>

<!ELEMENT sfw-sip-register-expiration (#PCDATA)>

<!ELEMENT sfw-sip-register-port (#PCDATA)>

<!ELEMENT sfw-sip-register-protocol (#PCDATA)>

<!ELEMENT sfw-sip-register-remaining (#PCDATA)>

<!ELEMENT sfw-sip-registers (sfw-sip-register-entry)*>

<!ELEMENT sfw-sip-to (#PCDATA)>

<!ELEMENT sfw-stats-service-set-entry (service-set-name | total-flow-accepts | total-flow-discards | total-flow-rejects | total-drops | new-flow-counters | existing-flow-counters | drop_counters | error-counters | ip-error-counters | tcp-error-counters | udp-error-counters | icmp-error-counters | alg-error-counters | alg-name | sip-active-call-count | sip-active-reg-count | sip-alg-counters)*>

<!ELEMENT sgp_default (#PCDATA)>

<!ELEMENT sgp_maximum (#PCDATA)>

<!ELEMENT sgp_minimum (#PCDATA)>

<!ELEMENT sgp_name (#PCDATA)>

```
<!ELEMENT sip-active-call-count (#PCDATA)>

<!ELEMENT sip-active-reg-count (#PCDATA)>

<!ELEMENT sip-alg-counters (total-counters | parser-counters | message-counters)*>
<!ATTLIST sip-alg-counters junos:style CDATA #IMPLIED>

<!ELEMENT sip-call-count (#PCDATA)>

<!ELEMENT sip-calls-removed (#PCDATA)>

<!ELEMENT sip-registration-count (#PCDATA)>

<!ELEMENT sip-registration-removed (#PCDATA)>

<!ELEMENT source-routing-instance (#PCDATA)>

<!ELEMENT subscribe-invalid (#PCDATA)>

<!ELEMENT subscribe-valid (#PCDATA)>

<!ELEMENT suppress-sc-forced-state-loss (#PCDATA)>

<!ELEMENT syn-attack (#PCDATA)>

<!ELEMENT syn-defense (#PCDATA)>

<!ELEMENT syn-modified (#PCDATA)>

<!ELEMENT syn-received (#PCDATA)>

<!ELEMENT synchronization-state (#PCDATA)>

<!ELEMENT syntax-errors (#PCDATA)>

<!ELEMENT system (#PCDATA)>

<!ELEMENT tcp-error-counters (tcp-header-length-error | tcp-zero-port |
illegal-sequence-number-flags | syn-attack | non-syn-first-packet | tcp-port-scan |
bad-syn-cookie-response | tcp-recon-sequence-number-error | tcp-recon-retransmits)*>

<!ELEMENT tcp-errors (#PCDATA)>

<!ELEMENT tcp-header-length-error (#PCDATA)>

<!ELEMENT tcp-port-scan (#PCDATA)>

<!ELEMENT tcp-recon-retransmits (#PCDATA)>

<!ELEMENT tcp-recon-sequence-number-error (#PCDATA)>

<!ELEMENT tcp-zero-port (#PCDATA)>

<!ELEMENT termination-count (#PCDATA)>

<!ELEMENT termination-duration (#PCDATA)>
```

<!ELEMENT termination-h248-dump (#PCDATA)>

<!ELEMENT termination-id-string (#PCDATA)>

<!ELEMENT termination-state (#PCDATA)>

<!ELEMENT timer (#PCDATA)>

<!ELEMENT tmax-retransmission-delay (#PCDATA)>

<!ELEMENT total-assigned-forwarding-class-packets (#PCDATA)>

<!ELEMENT total-counters (total-messages | call-segments)*>

<!ELEMENT total-drops (#PCDATA)>

<!ELEMENT total-flow-accepts (#PCDATA)>

<!ELEMENT total-flow-discards (#PCDATA)>

<!ELEMENT total-flow-rejects (#PCDATA)>

<!ELEMENT total-marked-dscp-packets (#PCDATA)>

<!ELEMENT total-messages (#PCDATA)>

<!ELEMENT total-received-dscp-packets (#PCDATA)>

<!ELEMENT total-received-forwarding-class-packets (#PCDATA)>

<!ELEMENT transaction-error-failed-to-parse (#PCDATA)>

<!ELEMENT translation-type (#PCDATA)>

<!ELEMENT transport-losses (#PCDATA)>

<!ELEMENT ttl-zero (#PCDATA)>

<!ELEMENT tunnel-group-name (#PCDATA)>

<!ELEMENT udp-error-counters (udp-header-length-error | udp-zero-port | udp-port-scan)*>

<!ELEMENT udp-errors (#PCDATA)>

<!ELEMENT udp-header-length-error (#PCDATA)>

<!ELEMENT udp-port-scan (#PCDATA)>

<!ELEMENT udp-zero-port (#PCDATA)>

<!ELEMENT unknown (#PCDATA)>

<!ELEMENT unknown-methods (#PCDATA)>

<!ELEMENT update-invalid (#PCDATA)>

```
<!ELEMENT update-valid (#PCDATA)>

<!ELEMENT uri-error-failed-to-process (#PCDATA)>

<!ELEMENT uri-error-no-system-resources (#PCDATA)>

<!ELEMENT uri-error-too-long (#PCDATA)>

<!ELEMENT uri-examination-failed-configuration (#PCDATA)>

<!ELEMENT uri-processing-error (#PCDATA)>

<!ELEMENT uri-redirect-set-name (#PCDATA)>

<!ELEMENT uri-redirect-set-statistics (uri-redirect-set-name | cause-roaming |
cause-time-of-day | cause-quality-of-service | cause-volume-expired | cause-cost-warning
| cause-not-allowed | cause-unsubscribed | cause-credit-expiry | cause-unknown |
cause-default)*>

<!ELEMENT uri-redirect-set-statistics-information (interface-name | interfaces |
uri-redirect-set-statistics)*>

<!ELEMENT usage-counters-entry (contexts-number | emergency-contexts-number)*>

<!ELEMENT v6-multicast-by-all (#PCDATA)>

<!ELEMENT v6-multicast-configured-status (#PCDATA)>

<!ELEMENT v6-multicast-interface-name (#PCDATA)>

<!ELEMENT v6-multicast-operation-status (#PCDATA)>

<!ELEMENT vif-service-state (#PCDATA)>

<!ELEMENT virtual-interface-entry (virtual-interface-name | routing-instance |
interface-name | vif-service-state | media-service-ref-entry)*>

<!ELEMENT virtual-interface-name (#PCDATA)>

<!ELEMENT wap-transaction-created (#PCDATA)>

<!ELEMENT wap-transaction-freed (#PCDATA)>

<!ELEMENT wap-transaction-idle-freed (#PCDATA)>

<!ELEMENT wap-transaction-maximum (#PCDATA)>

<!ELEMENT wildcard-response-service-change (#PCDATA)>
```

Chapter 6

DTD for Alarm Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-alarm.dtd, which lists the JUNOS XML tags that contain information about routing platform alarms. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-alarm. To review reference pages for the tags, see "Summary of Alarm Response Tags" on page 530.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-alarm.dtd –>

<!ELEMENT active-alarm-count (#PCDATA)>

<!ELEMENT alarm-class (#PCDATA)>

<!ELEMENT alarm-description (#PCDATA)>

<!ELEMENT alarm-detail (alarm-time | alarm-class | alarm-description |
alarm-short-description | alarm-type)*>

<!ELEMENT alarm-id (#PCDATA)>

<!ELEMENT alarm-id-information (alarm-id)*>

<!ELEMENT alarm-information (alarm-summary | alarm-detail)*>

<!ELEMENT alarm-short-description (#PCDATA)>

<!ELEMENT alarm-summary (active-alarm-count | no-active-alarms)*>

<!ELEMENT alarm-time (#PCDATA)>
<!ATTLIST alarm-time junos:seconds CDATA #IMPLIED>

<!ELEMENT alarm-type (#PCDATA)>

<!ELEMENT multi-routing-engine-item (re-name | alarm-information)*>

<!ELEMENT multi-routing-engine-results (multi-routing-engine-item)*>

<!ELEMENT no-active-alarms EMPTY>

<!ELEMENT re-name (#PCDATA)>
```

Chapter 7

DTD for ANCP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-ancp.dtd, which lists the JUNOS XML tags that contain information about routing platform alarms. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ancp. To review reference pages for the tags, see "Summary of ANCP Response Tags" on page 533.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-ancp.dtd –>

<!ELEMENT accept-config-deny-count (#PCDATA)>

<!ELEMENT accept-count (#PCDATA)>

<!ELEMENT accept-fail-count (#PCDATA)>

<!ELEMENT access-aggregate-circuit-binary-identifier (#PCDATA)>

<!ELEMENT access-aggregate-circuit-identifier (#PCDATA)>

<!ELEMENT access-loop-identifier (#PCDATA)>

<!ELEMENT access-loop-remote-identifier (#PCDATA)>

<!ELEMENT actual-interleave-delay-downstream (#PCDATA)>

<!ELEMENT actual-interleave-delay-upstream (#PCDATA)>

<!ELEMENT actual-net-data-downstream (#PCDATA)>

<!ELEMENT actual-net-data-upstream (#PCDATA)>

<!ELEMENT adjacency-time (#PCDATA)>

<!ELEMENT adjacency-timer (#PCDATA)>

<!ELEMENT aid-ipaddress (#PCDATA)>

<!ELEMENT aid-name (#PCDATA)>

<!ELEMENT ancp-aid-entry (if-type | record-number | if-name | aid-name | aid-ipaddress |
kernel-exist | config-exist)*>
```

<!ELEMENT ancp-aid-information (ancp-aid-entry)*>

<!ELEMENT ancp-config-entry (if-type | record-number | if-name | aid-name | aid-ipaddress)*>

<!ELEMENT ancp-config-information (ancp-scalar-entry | ancp-config-entry)*>

<!ELEMENT ancp-cos-entry (interface-type | interface-name | interface-index | shaping-rate | last-update)*>

<!ELEMENT ancp-cos-heading (qos-adjust | cos-state | connect-time | session-time | rtcreate-time | keepalive-time | rate-update-time | keepalive-timer)*>

<!ELEMENT ancp-cos-information (ancp-cos-heading | ancp-cos-entry)*>

<!ELEMENT ancp-kernel-entry (if-type | record-number | if-name | if-index | aid-name | aid-ipaddress)*>

<!ELEMENT ancp-kernel-information (ancp-kernel-entry)*>

<!ELEMENT ancp-neighbor (received-syn-count | received-synack-count | received-ack-count | received-rstack-count | received-port-up-count | received-port-down-count | received-other-count | sent-syn-count | sent-synack-count | sent-ack-count | sent-rstack-count | max-discovery-limit-exceed-count | ip-address | tcp-port | up-time | mac-address | state | neighbor-subscriber-count | system-instance | peer-instance | capabilities | adjacency-time | peer-adjacency-time | partition-type | partition-flag | partition-identifier | dead-time)*>

<!ELEMENT ancp-neighbor-adjacency-timer (#PCDATA)>

<!ELEMENT ancp-neighbor-configuration-entry (record-number | ancp-neighbor-ip | ancp-neighbor-discovery-mode | ancp-neighbor-ietf-mode | ancp-neighbor-adjacency-timer | ancp-neighbor-maximum-discovery-entries)*>

<!ELEMENT ancp-neighbor-configuration-information (ancp-neighbor-configuration-entry)*>

<!ELEMENT ancp-neighbor-discovery-mode (#PCDATA)>

<!ELEMENT ancp-neighbor-ietf-mode (#PCDATA)>

<!ELEMENT ancp-neighbor-information (ancp-neighbor)*>
<!ATTLIST ancp-neighbor-information junos:style CDATA #IMPLIED>

<!ELEMENT ancp-neighbor-ip (#PCDATA)>

<!ELEMENT ancp-neighbor-maximum-discovery-entries (#PCDATA)>

<!ELEMENT ancp-scalar-entry (qos-adjust | ietf-mode | adjacency-timer | maximum-discovery-entries-neighbor)*>

<!ELEMENT ancp-statistics-information (neighbor-count | subscriber-count | received-syn-count | received-synack-count | received-ack-count | received-rstack-count | received-port-up-count | received-port-down-count | received-other-count | sent-syn-count | sent-synack-count | sent-ack-count | sent-rstack-count | accept-count | accept-fail-count | accept-config-deny-count)*>

```
<!ELEMENT ancp-subscriber (access-loop-identifier | access-loop-remote-identifier |
interface | interface-type | access-aggregate-circuit-identifier |
access-aggregate-circuit-binary-identifier | dsl-type | actual-net-data-upstream |
actual-net-data-downstream | minimum-net-data-upstream |
minimum-net-data-downstream | maximum-net-data-upstream |
maximum-net-data-downstream | attainable-net-data-upstream |
attainable-net-data-downstream | neighbor-ip-address |
minimum-low-power-data-upstream | minimum-low-power-data-downstream |
maximum-interleave-delay-downstream | maximum-interleave-delay-upstream |
actual-interleave-delay-downstream | actual-interleave-delay-upstream | dsl-line-state |
dsl-line-data-link | dsl-line-encapsulation | dsl-line-encapsulation-payload)*>

<!ELEMENT ancp-subscriber-information (ancp-subscriber | ancp-neighbor)*>
<!ATTLIST ancp-subscriber-information junos:style CDATA #IMPLIED>

<!ELEMENT attainable-net-data-downstream (#PCDATA)>

<!ELEMENT attainable-net-data-upstream (#PCDATA)>

<!ELEMENT capabilities (#PCDATA)>

<!ELEMENT config-exist (#PCDATA)>

<!ELEMENT connect-time (#PCDATA)>

<!ELEMENT cos-state (#PCDATA)>

<!ELEMENT dead-time (#PCDATA)>

<!ELEMENT dsl-line-data-link (#PCDATA)>

<!ELEMENT dsl-line-encapsulation (#PCDATA)>

<!ELEMENT dsl-line-encapsulation-payload (#PCDATA)>

<!ELEMENT dsl-line-state (#PCDATA)>

<!ELEMENT dsl-type (#PCDATA)>

<!ELEMENT ietf-mode (#PCDATA)>

<!ELEMENT if-index (#PCDATA)>

<!ELEMENT if-name (#PCDATA)>

<!ELEMENT if-type (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT interface-index (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-type (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>
```

<!ELEMENT keepalive-time (#PCDATA)>

<!ELEMENT keepalive-timer (#PCDATA)>

<!ELEMENT kernel-exist (#PCDATA)>

<!ELEMENT last-update (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT max-discovery-limit-exceed-count (#PCDATA)>

<!ELEMENT maximum-discovery-entries-neighbor (#PCDATA)>

<!ELEMENT maximum-interleave-delay-downstream (#PCDATA)>

<!ELEMENT maximum-interleave-delay-upstream (#PCDATA)>

<!ELEMENT maximum-net-data-downstream (#PCDATA)>

<!ELEMENT maximum-net-data-upstream (#PCDATA)>

<!ELEMENT minimum-low-power-data-downstream (#PCDATA)>

<!ELEMENT minimum-low-power-data-upstream (#PCDATA)>

<!ELEMENT minimum-net-data-downstream (#PCDATA)>

<!ELEMENT minimum-net-data-upstream (#PCDATA)>

<!ELEMENT neighbor-count (#PCDATA)>

<!ELEMENT neighbor-ip-address (#PCDATA)>

<!ELEMENT neighbor-subscriber-count (#PCDATA)>

<!ELEMENT partition-flag (#PCDATA)>

<!ELEMENT partition-identifier (#PCDATA)>

<!ELEMENT partition-type (#PCDATA)>

<!ELEMENT peer-adjacency-time (#PCDATA)>

<!ELEMENT peer-instance (#PCDATA)>

<!ELEMENT qos-adjust (#PCDATA)>

<!ELEMENT rate-update-time (#PCDATA)>

<!ELEMENT received-ack-count (#PCDATA)>

<!ELEMENT received-other-count (#PCDATA)>

<!ELEMENT received-port-down-count (#PCDATA)>

<!ELEMENT received-port-up-count (#PCDATA)>

```
<!ELEMENT received-rstack-count (#PCDATA)>
<!ELEMENT received-syn-count (#PCDATA)>
<!ELEMENT received-synack-count (#PCDATA)>
<!ELEMENT record-number (#PCDATA)>
<!ELEMENT rtcreate-time (#PCDATA)>
<!ELEMENT sent-ack-count (#PCDATA)>
<!ELEMENT sent-rstack-count (#PCDATA)>
<!ELEMENT sent-syn-count (#PCDATA)>
<!ELEMENT sent-synack-count (#PCDATA)>
<!ELEMENT session-time (#PCDATA)>
<!ELEMENT shaping-rate (#PCDATA)>
<!ELEMENT state (#PCDATA)>
<!ELEMENT subscriber-count (#PCDATA)>
<!ELEMENT system-instance (#PCDATA)>
<!ELEMENT tcp-port (#PCDATA)>
<!ELEMENT up-time (#PCDATA)>
```

Chapter 8

DTD for APPIDD Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-appidd.dtd, which lists the JUNOS XML tags that contain information about routing platform alarms. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-appidd. To review reference pages for the tags, see "Summary of APPIDD Response Tags" on page 547.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-appidd.dtd –>

<!ELEMENT address-matched-sessions (#PCDATA)>

<!ELEMENT address-unknown-sessions (#PCDATA)>

<!ELEMENT appid-application-system-cache (ip-address | port | protocol | index |
cpu-id)*>

<!ELEMENT appid-application-system-cache-information (pic |
appid-application-system-cache)*>

<!ELEMENT appid-apppack-uninstall (appid-apppack-uninstall-detail)*>

<!ELEMENT appid-apppack-uninstall-detail (#PCDATA)>

<!ELEMENT appid-counter (pic | total-sessions | total-matched-sessions |
total-unknown-sessions | signature-matched-sessions | signature-unknown-sessions |
address-matched-sessions | address-unknown-sessions | port-matched-sessions |
port-unknown-sessions | icmp-matched-sessions | icmp-unknown-sessions |
ip-protocol-matched-sessions | ip-protocol-unknown-sessions |
application-system-cache-hit | application-system-cache-miss)*>

<!ELEMENT appid-counter-information (appid-counter)*>

<!ELEMENT appid-package-version (version-detail)*>

<!ELEMENT application-system-cache-hit (#PCDATA)>

<!ELEMENT application-system-cache-miss (#PCDATA)>

<!ELEMENT apppack-download-status (apppack-download-status-detail)*>

<!ELEMENT apppack-download-status-detail (#PCDATA)>
```

```
<!ELEMENT cpu-id (#PCDATA)>
<!ELEMENT icmp-matched-sessions (#PCDATA)>
<!ELEMENT icmp-unknown-sessions (#PCDATA)>
<!ELEMENT index (#PCDATA)>
<!ELEMENT ip-address (#PCDATA)>
<!ELEMENT ip-protocol-matched-sessions (#PCDATA)>
<!ELEMENT ip-protocol-unknown-sessions (#PCDATA)>
<!ELEMENT pic (#PCDATA)>
<!ELEMENT port (#PCDATA)>
<!ELEMENT port-matched-sessions (#PCDATA)>
<!ELEMENT port-unknown-sessions (#PCDATA)>
<!ELEMENT protocol (#PCDATA)>
<!ELEMENT signature-matched-sessions (#PCDATA)>
<!ELEMENT signature-unknown-sessions (#PCDATA)>
<!ELEMENT total-matched-sessions (#PCDATA)>
<!ELEMENT total-sessions (#PCDATA)>
<!ELEMENT total-unknown-sessions (#PCDATA)>
<!ELEMENT version-detail (#PCDATA)>
```

Chapter 9

DTD for APS Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-aps.dtd, which lists the JUNOS XML tags that contain Automatic Protection Switching (APS) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-aps. To review reference pages for the tags, see "Summary of APS Response Tags" on page 551.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-aps.dtd –>

<!ELEMENT aps-adjacent-state (#PCDATA)>

<!ELEMENT aps-annex-b (#PCDATA)>

<!ELEMENT aps-channel-state (#PCDATA)>

<!ELEMENT aps-config-state (#PCDATA)>

<!ELEMENT aps-config-state-circuit (#PCDATA)>

<!ELEMENT aps-interface (aps-interface-name | aps-interface-group |
aps-interface-circuit-type | aps-interface-circuit-state | aps-interface-state | aps-neighbor
| aps-adjacent-state | aps-neighbor-select-state | aps-time-remaining | aps-channel-state
| aps-config-state | aps-config-state-circuit | aps-loop-circuit-type | aps-loop-circuit-name |
aps-pair-interface-name | aps-pair-group-name | aps-local-mode | aps-neighbor-mode |
aps-request-k1 | aps-request-k2 | aps-receive-k1 | aps-transmit-k1 | aps-receive-k2 |
aps-transmit-k2 | aps-neighbor-k1 | aps-neighbor-paired-request | aps-revert-time |
aps-wait-to-restore-time | aps-annex-b | aps-neighbor-revert-time |
aps-neighbor-wait-to-restore-time | aps-remaining-revert-time |
aps-remaining-wait-to-restore-time | aps-remaining-forced-revert-time |
aps-remaining-hello-timer | aps-remaining-update-timer |
aps-remaining-holddown-timer)*>
<!ATTLIST aps-interface junos:style CDATA #IMPLIED>

<!ELEMENT aps-interface-circuit-state (#PCDATA)>

<!ELEMENT aps-interface-circuit-type (#PCDATA)>

<!ELEMENT aps-interface-group (#PCDATA)>

<!ELEMENT aps-interface-information (aps-interface)*>

<!ELEMENT aps-interface-name (#PCDATA)>
```

<!ELEMENT aps-interface-state (#PCDATA)>

<!ELEMENT aps-local-mode (#PCDATA)>

<!ELEMENT aps-loop-circuit-name (#PCDATA)>

<!ELEMENT aps-loop-circuit-type (#PCDATA)>

<!ELEMENT aps-neighbor (#PCDATA)>

<!ELEMENT aps-neighbor-k1 (#PCDATA)>

<!ELEMENT aps-neighbor-mode (#PCDATA)>

<!ELEMENT aps-neighbor-paired-request (#PCDATA)>

<!ELEMENT aps-neighbor-revert-time (#PCDATA)>

<!ELEMENT aps-neighbor-select-state (#PCDATA)>

<!ELEMENT aps-neighbor-wait-to-restore-time (#PCDATA)>

<!ELEMENT aps-pair-group-name (#PCDATA)>

<!ELEMENT aps-pair-interface-name (#PCDATA)>

<!ELEMENT aps-receive-k1 (#PCDATA)>

<!ELEMENT aps-receive-k2 (#PCDATA)>

<!ELEMENT aps-remaining-forced-revert-time (#PCDATA)>

<!ELEMENT aps-remaining-hello-timer (#PCDATA)>

<!ELEMENT aps-remaining-holddown-timer (#PCDATA)>

<!ELEMENT aps-remaining-revert-time (#PCDATA)>

<!ELEMENT aps-remaining-update-timer (#PCDATA)>

<!ELEMENT aps-remaining-wait-to-restore-time (#PCDATA)>

<!ELEMENT aps-request-k1 (#PCDATA)>

<!ELEMENT aps-request-k2 (#PCDATA)>

<!ELEMENT aps-revert-time (#PCDATA)>

<!ELEMENT aps-time-remaining (#PCDATA)>

<!ELEMENT aps-transmit-k1 (#PCDATA)>

<!ELEMENT aps-transmit-k2 (#PCDATA)>

<!ELEMENT aps-wait-to-restore-time (#PCDATA)>

Chapter 10

DTD for ARP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-arp.dtd, which lists the JUNOS XML tags that contain Address Resolution Protocol (ARP) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-arp. To review reference pages for the tags, see "Summary of ARP Response Tags" on page 555.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-arp.dtd –>

<!ELEMENT arp-entry-count (#PCDATA)>

<!ELEMENT arp-table-entry (mac-address | ip-address | hostname | interface-name |
arp-table-entry-flags | time-to-expire)*>

<!ELEMENT arp-table-entry-flags (none | permanent | published | dead | free)*>

<!ELEMENT arp-table-information (arp-table-entry | arp-entry-count)*>
<!ATTLIST arp-table-information junos:style CDATA #IMPLIED>

<!ELEMENT clear-arp-table-result (ip-address | clear-success)*>

<!ELEMENT clear-arp-table-results (clear-arp-table-result)*>

<!ELEMENT clear-success EMPTY>

<!ELEMENT dead EMPTY>

<!ELEMENT free EMPTY>

<!ELEMENT hostname (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT none EMPTY>

<!ELEMENT permanent EMPTY>

<!ELEMENT published EMPTY>
```

```
<!ELEMENT time-to-expire (#PCDATA)>
```

Chapter 11

DTD for Authentication Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-auth.dtd, which lists the JUNOS XML tags that contain authentication information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-auth. To review reference pages for the tags, see "Summary of Authentication Response Tags" on page 558.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-auth.dtd –>

<!ELEMENT aaa-module-accounting-statistics (requests | accounting-response-failures |
accounting-response-success | timeouts)*>

<!ELEMENT aaa-module-authentication-statistics (requests | accepts | rejects |
challenges | timeouts)*>

<!ELEMENT aaa-module-dynamic-requests-statistics (requests | processed-ok |
processing-error | silent-drops)*>

<!ELEMENT aaa-module-statistics (requests | accepts | rejects |
accounting-response-failures | accounting-response-success | timeouts | challenges |
processed-ok | processing-error | silent-drops | aaa-module-authentication-statistics |
aaa-module-accounting-statistics | aaa-module-dynamic-requests-statistics)*>

<!ELEMENT aaa-subscriber-accounting-statistics (accounting-start-sent-successfully |
accounting-start-send-failed | accounting-start-responses |
accounting-interim-sent-successfully | accounting-interim-send-failed |
accounting-interim-responses | accounting-stop-on-failure-sent-successfully |
accounting-stop-on-failure-send-failed | accounting-stop-on-failure-responses |
accounting-stop-sent-successfully | accounting-stop-send-failed |
accounting-stop-responses)*>

<!ELEMENT aaa-subscriber-auth-statistics (authentication-challenge-requests |
authentication-challenge-responses)*>

<!ELEMENT aaa-subscriber-service-statistics (service-creates | service-deletes |
service-timeouts)*>
```

```
<!ELEMENT aaa-subscriber-statistics (authentication-challenge-requests |
authentication-challenge-responses | accounting-start-sent-successfully |
accounting-start-send-failed | accounting-start-responses |
accounting-interim-sent-successfully | accounting-interim-send-failed |
accounting-interim-responses | accounting-stop-on-failure-sent-successfully |
accounting-stop-on-failure-send-failed | accounting-stop-on-failure-responses |
accounting-stop-sent-successfully | accounting-stop-send-failed |
accounting-stop-responses | service-creates | service-deletes | service-timeouts |
aaa-subscriber-auth-statistics | aaa-subscriber-accounting-statistics |
aaa-subscriber-service-statistics)*>

<!ELEMENT aaa-subscriber-table (aaa-subscriber-table-entry |
aaa-subscriber-table-entry-details |
aaa-subscriber-table-logical-system-routing-instance-entries |
aaa-subscriber-table-entry-service-details)*>

<!ELEMENT aaa-subscriber-table-details (aaa-subscriber-table |
aaa-subscriber-statistics)*>

<!ELEMENT aaa-subscriber-table-entry (user-name | logical-system-routing-instance |
client-type | session-id)*>
<!ATTLIST aaa-subscriber-table-entry junos:style CDATA #IMPLIED>

<!ELEMENT aaa-subscriber-table-entry-details (logical-system-routing-instance |
client-type | session-uptime | accounting-status)*>
<!ATTLIST aaa-subscriber-table-entry-details junos:style CDATA #IMPLIED>

<!ELEMENT aaa-subscriber-table-entry-service-details (service-name | service-type |
service-quota | accounting-status)*>
<!ATTLIST aaa-subscriber-table-entry-service-details junos:style CDATA #IMPLIED>

<!ELEMENT aaa-subscriber-table-logical-system-routing-instance-entries (user-name |
client-type | logical-system-routing-instance)*>
<!ATTLIST aaa-subscriber-table-logical-system-routing-instance-entries junos:style
CDATA #IMPLIED>

<!ELEMENT accepts (#PCDATA)>

<!ELEMENT accounting-interim-responses (#PCDATA)>

<!ELEMENT accounting-interim-send-failed (#PCDATA)>

<!ELEMENT accounting-interim-sent-successfully (#PCDATA)>

<!ELEMENT accounting-response-failures (#PCDATA)>

<!ELEMENT accounting-response-success (#PCDATA)>

<!ELEMENT accounting-start-responses (#PCDATA)>

<!ELEMENT accounting-start-send-failed (#PCDATA)>

<!ELEMENT accounting-start-sent-successfully (#PCDATA)>

<!ELEMENT accounting-status (#PCDATA)>

<!ELEMENT accounting-stop-on-failure-responses (#PCDATA)>
```

```
<!ELEMENT accounting-stop-on-failure-send-failed (#PCDATA)>

<!ELEMENT accounting-stop-on-failure-sent-successfully (#PCDATA)>

<!ELEMENT accounting-stop-responses (#PCDATA)>

<!ELEMENT accounting-stop-send-failed (#PCDATA)>

<!ELEMENT accounting-stop-sent-successfully (#PCDATA)>

<!ELEMENT address-assignment-pool-entry (ip-address | hardware-address |
subscriber-type)*>

<!ELEMENT address-assignment-pool-table (address-assignment-pool-entry)*>
<!ATTLIST address-assignment-pool-table junos:style CDATA #IMPLIED>

<!ELEMENT address-assignment-pool-table-details (address-assignment-pool-table)*>

<!ELEMENT auth-pending-entry (index | auth-status | profile-name | user-name)*>

<!ELEMENT auth-pending-table (auth-pending-entry)*>
<!ATTLIST auth-pending-table junos:style CDATA #IMPLIED>

<!ELEMENT auth-pending-table-details (auth-pending-table-info | auth-pending-table)*>

<!ELEMENT auth-pending-table-info (auth-pending-total-entries)*>

<!ELEMENT auth-pending-total-entries (#PCDATA)>

<!ELEMENT auth-statistics (total-statistics | radius-auth-statistics | ldap-auth-statistics |
securid-auth-statistics | local-auth-statistics)*>

<!ELEMENT auth-status (#PCDATA)>

<!ELEMENT authentication-challenge-requests (#PCDATA)>

<!ELEMENT authentication-challenge-responses (#PCDATA)>

<!ELEMENT challenges (#PCDATA)>

<!ELEMENT client-type (#PCDATA)>

<!ELEMENT failure-responses (#PCDATA)>

<!ELEMENT hardware-address (#PCDATA)>

<!ELEMENT index (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT ldap-auth-statistics (total-requests | success-responses |
failure-responses)*>

<!ELEMENT local-auth-statistics (total-requests | success-responses |
failure-responses)*>
```

<!ELEMENT logical-system-routing-instance (#PCDATA)>

<!ELEMENT node-secret-file (#PCDATA)>

<!ELEMENT node-secret-file-table (node-secret-file-table-entry)*>

<!ELEMENT node-secret-file-table-entry (server-name | node-secret-file)*>

<!ELEMENT processed-ok (#PCDATA)>

<!ELEMENT processing-error (#PCDATA)>

<!ELEMENT profile-name (#PCDATA)>

<!ELEMENT radius-auth-statistics (total-requests | success-responses | failure-responses)*>

<!ELEMENT rejects (#PCDATA)>

<!ELEMENT requests (#PCDATA)>

<!ELEMENT securid-auth-statistics (total-requests | success-responses | failure-responses)*>

<!ELEMENT server-name (#PCDATA)>

<!ELEMENT service-creates (#PCDATA)>

<!ELEMENT service-deletes (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>

<!ELEMENT service-quota (#PCDATA)>

<!ELEMENT service-timeouts (#PCDATA)>

<!ELEMENT service-type (#PCDATA)>

<!ELEMENT session-id (#PCDATA)>

<!ELEMENT session-uptime (#PCDATA)>

<!ELEMENT silent-drops (#PCDATA)>

<!ELEMENT subscriber-type (#PCDATA)>

<!ELEMENT success-responses (#PCDATA)>

<!ELEMENT timeouts (#PCDATA)>

<!ELEMENT total-requests (#PCDATA)>

<!ELEMENT total-responses (#PCDATA)>

<!ELEMENT total-statistics (total-requests | total-responses)*>

<!ELEMENT user-name (#PCDATA)>

Chapter 12

DTD for Autoinstallation Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-autoinstallation.dtd, which lists the JUNOS XML tags that contain autoinstallation information for J Series routers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-autoinstallation. To review reference pages for the tags, see "Summary of Autoinstallation Response Tags" on page 573.

```
<!– Copyright (c) 2000-2008, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-autoinstallation.dtd –>

<!ELEMENT autoinstallation-status-information (master-state |
last-configuration-filename | last-configuration-server |
autoinstallation-status-interface-information)*>

<!ELEMENT autoinstallation-status-interface-address-information (protocol-name |
protocol-address)*>

<!ELEMENT autoinstallation-status-interface-information (interface-name |
interface-state | interface-acquired-address | interface-acquired-hostname |
interface-acquired-hostname-source | interface-acquired-configuration-filename |
interface-acquired-configuration-server |
autoinstallation-status-interface-address-information)*>

<!ELEMENT interface-acquired-address (#PCDATA)>

<!ELEMENT interface-acquired-configuration-filename (#PCDATA)>

<!ELEMENT interface-acquired-configuration-server (#PCDATA)>

<!ELEMENT interface-acquired-hostname (#PCDATA)>

<!ELEMENT interface-acquired-hostname-source (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-state (#PCDATA)>

<!ELEMENT last-configuration-filename (#PCDATA)>
```

```
<!ELEMENT last-configuration-server (#PCDATA)>
<!ELEMENT master-state (#PCDATA)>
<!ELEMENT protocol-address (#PCDATA)>
<!ELEMENT protocol-name (#PCDATA)>
```

Chapter 13

DTD for BFD Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-bfd.dtd, which lists the JUNOS XML tags that contain the Bidirectional Forwarding Detection (BFD) Protocol information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-bfd. To review reference pages for the tags, see "Summary of BFD Response Tags" on page 575.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-bfd.dtd –>

<!ELEMENT adaptation-disabled (#PCDATA)>

<!ELEMENT adaptive-asynchronous-transmission-interval (#PCDATA)>

<!ELEMENT adaptive-reception-interval (#PCDATA)>

<!ELEMENT authentication (#PCDATA)>

<!ELEMENT bfd-client (client-name | client-transmission-interval |
client-reception-interval | client-multiplier | client-holddown-interval | client-state |
client-authentication | client-keychain | client-algorithm | client-authentication-loose)*>

<!ELEMENT bfd-replication (bfd-replication-session-entry)*>

<!ELEMENT bfd-replication-session-entry (session-neighbor | session-interface |
local-discriminator | replication-state)*>
<!ELEMENT bfd-session (session-state | session-interface | session-neighbor |
session-detection-time | session-transmission-interval | session-adaptive-multiplier |
bfd-client | session-up-time | previous-up-time | session-down-time | previous-down-time
| local-diagnostic | remote-diagnostic | remote-state | v0-remote-state | remote-listen |
session-version | logical-system-id | route-table-index | minimum-asynchronous-interval |
minimum-slow-interval | adaptive-asynchronous-transmission-interval |
adaptive-reception-interval | minimum-transmission-interval |
threshold-transmission-interval | minimum-reception-interval | detection-multiplier |
threshold-detection-time | neighbor-minimum-transmission-interval |
neighbor-minimum-reception-interval | neighbor-session-multiplier | issu-state |
original-transmission-interval | original-reception-interval | local-discriminator |
remote-discriminator | echo-mode-desired | echo-mode-state | no-absorb | no-refresh |
update-adjacency | update-transmit | neighbor-fate | replicated | holddown-timer |
adaptation-disabled | tunnel-name | tunnel-path | tunnel-prefix | tunnel-prefix-length |
tunnel-type | tunnel-destination | multihop-time-to-live | multihop |
multihop-routing-table-index | multihop-local-address | authentication | session-keychain
| session-algorithm | session-authentication-loose)*>
```

```
<!ELEMENT bfd-session-information (bfd-session | sessions | clients |
cumulative-transmission-rate | cumulative-reception-rate | error-value)*>
<!ATTLIST bfd-session-information junos:style CDATA #IMPLIED>

<!ELEMENT client-algorithm (#PCDATA)>

<!ELEMENT client-authentication (#PCDATA)>

<!ELEMENT client-authentication-loose (#PCDATA)>

<!ELEMENT client-holddown-interval (#PCDATA)>

<!ELEMENT client-keychain (#PCDATA)>

<!ELEMENT client-multiplier (#PCDATA)>

<!ELEMENT client-name (#PCDATA)>

<!ELEMENT client-reception-interval (#PCDATA)>

<!ELEMENT client-state (#PCDATA)>

<!ELEMENT client-transmission-interval (#PCDATA)>

<!ELEMENT clients (#PCDATA)>

<!ELEMENT cumulative-reception-rate (#PCDATA)>

<!ELEMENT cumulative-transmission-rate (#PCDATA)>

<!ELEMENT detection-multiplier (#PCDATA)>

<!ELEMENT echo-mode-desired (#PCDATA)>

<!ELEMENT echo-mode-state (#PCDATA)>

<!ELEMENT error-value (#PCDATA)>

<!ELEMENT holddown-timer (#PCDATA)>

<!ELEMENT issu-state (#PCDATA)>

<!ELEMENT local-diagnostic (#PCDATA)>

<!ELEMENT local-discriminator (#PCDATA)>

<!ELEMENT logical-system-id (#PCDATA)>

<!ELEMENT minimum-asynchronous-interval (#PCDATA)>

<!ELEMENT minimum-reception-interval (#PCDATA)>

<!ELEMENT minimum-slow-interval (#PCDATA)>

<!ELEMENT minimum-transmission-interval (#PCDATA)>
```

```
<!ELEMENT multihop (#PCDATA)>
<!ELEMENT multihop-local-address (#PCDATA)>
<!ELEMENT multihop-routing-table-index (#PCDATA)>
<!ELEMENT multihop-time-to-live (#PCDATA)>
<!ELEMENT neighbor-fate (#PCDATA)>
<!ELEMENT neighbor-minimum-reception-interval (#PCDATA)>
<!ELEMENT neighbor-minimum-transmission-interval (#PCDATA)>
<!ELEMENT neighbor-session-multiplier (#PCDATA)>
<!ELEMENT no-absorb (#PCDATA)>
<!ELEMENT no-refresh (#PCDATA)>
<!ELEMENT original-reception-interval (#PCDATA)>
<!ELEMENT original-transmission-interval (#PCDATA)>
<!ELEMENT previous-down-time (#PCDATA)>
<!ELEMENT previous-up-time (#PCDATA)>
<!ELEMENT remote-diagnostic (#PCDATA)>
<!ELEMENT remote-discriminator (#PCDATA)>
<!ELEMENT remote-listen (#PCDATA)>
<!ELEMENT remote-state (#PCDATA)>
<!ELEMENT replicated (#PCDATA)>
<!ELEMENT replication-state (#PCDATA)>
<!ELEMENT route-table-index (#PCDATA)>
<!ELEMENT session-adaptive-multiplier (#PCDATA)>
<!ELEMENT session-algorithm (#PCDATA)>
<!ELEMENT session-authentication-loose (#PCDATA)>
<!ELEMENT session-detection-time (#PCDATA)>
<!ELEMENT session-down-time (#PCDATA)>
<!ELEMENT session-interface (#PCDATA)>
<!ELEMENT session-keychain (#PCDATA)>
<!ELEMENT session-neighbor (#PCDATA)>
```

```
<!ELEMENT session-state (#PCDATA)>
<!ELEMENT session-transmission-interval (#PCDATA)>
<!ELEMENT session-up-time (#PCDATA)>
<!ELEMENT session-version (#PCDATA)>
<!ELEMENT sessions (#PCDATA)>
<!ELEMENT threshold-detection-time (#PCDATA)>
<!ELEMENT threshold-transmission-interval (#PCDATA)>
<!ELEMENT tunnel-destination (#PCDATA)>
<!ELEMENT tunnel-name (#PCDATA)>
<!ELEMENT tunnel-path (#PCDATA)>
<!ELEMENT tunnel-prefix (#PCDATA)>
<!ELEMENT tunnel-prefix-length (#PCDATA)>
<!ELEMENT tunnel-type (#PCDATA)>
<!ELEMENT update-adjacency (#PCDATA)>
<!ELEMENT update-transmit (#PCDATA)>
<!ELEMENT v0-remote-state (#PCDATA)>
```

Chapter 14

DTD for Connectivity Fault Management Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-cfm.dtd, which lists the JUNOS XML tags that contain connectivity fault management information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-cfm. To review reference pages for the tags, see "Summary of Connectivity Fault Management Response Tags" on page 582.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-cfm.dtd –>

<!ELEMENT cfm-action-profile-name (#PCDATA)>

<!ELEMENT cfm-ap-action-name (#PCDATA)>

<!ELEMENT cfm-ap-action-time (#PCDATA)>

<!ELEMENT cfm-ap-last-event (#PCDATA)>

<!ELEMENT cfm-ap-last-event-cleared-time (#PCDATA)>

<!ELEMENT cfm-continuity-check-interval (#PCDATA)>
<!ATTLIST cfm-continuity-check-interval junos:format CDATA #IMPLIED>

<!ELEMENT cfm-continuity-check-loss-threshold (#PCDATA)>

<!ELEMENT cfm-continuity-check-status (#PCDATA)>

<!ELEMENT cfm-counters-route-socket-operations
(cfm-route-socket-message-counters)*>

<!ELEMENT cfm-counters-route-socket-received (cfm-route-socket-message-counters)*>

<!ELEMENT cfm-cross-connect-session (cfm-session-defect-type |
cfm-session-defect-description | cfm-level | cfm-maintenance-domain-name |
cfm-maintenance-domain-name-format | cfm-maintenance-association-name |
cfm-maintenance-association-name-format | cfm-mep-identifier |
cfm-continuity-check-interval)*>

<!ELEMENT cfm-cross-connect-session-count (#PCDATA)>
```

<!ELEMENT cfm-cross-connect-sessions (cfm-cross-connect-session-count | cfm-cross-connect-session)*>

<!ELEMENT cfm-default-maintenance-domain-mhf (#PCDATA)>

<!ELEMENT cfm-defect-cross-connect-ccm (#PCDATA)>

<!ELEMENT cfm-defect-error-ccm (#PCDATA)>

<!ELEMENT cfm-defect-mac-status (#PCDATA)>

<!ELEMENT cfm-defect-rdi-in-some-mep (#PCDATA)>

<!ELEMENT cfm-defect-remote-mep-no-ccm (#PCDATA)>

<!ELEMENT cfm-delay-statistics (cfm-entry)*>

<!ELEMENT cfm-dfwd-connection-state (#PCDATA)>

<!ELEMENT cfm-dfwd-nh-to-delete (#PCDATA)>

<!ELEMENT cfm-dfwd-pending-transactions (cfm-dfwd-transaction)*>

<!ELEMENT cfm-dfwd-reconnect-count (#PCDATA)>

<!ELEMENT cfm-dfwd-requests-accepted (#PCDATA)>

<!ELEMENT cfm-dfwd-requests-lost (#PCDATA)>

<!ELEMENT cfm-dfwd-requests-rejected (#PCDATA)>

<!ELEMENT cfm-dfwd-requests-sent (#PCDATA)>

<!ELEMENT cfm-dfwd-transaction (cfm-dfwd-transaction-id | cfm-dfwd-nh-to-delete)*>

<!ELEMENT cfm-dfwd-transaction-id (#PCDATA)>

<!ELEMENT cfm-dmm-received (#PCDATA)>

<!ELEMENT cfm-dmm-received-invalid (#PCDATA)>

<!ELEMENT cfm-dmm-sent (#PCDATA)>

<!ELEMENT cfm-dmr-received (#PCDATA)>

<!ELEMENT cfm-dmr-received-invalid (#PCDATA)>

<!ELEMENT cfm-dmr-sent (#PCDATA)>

<!ELEMENT cfm-entry (cfm-interface-entry | cfm-interface-sessions | cfm-mep-database-session | cfm-mep-database-continuity-check | cfm-mep-database-interface | cfm-local-mep | cfm-local-mep-defects | cfm-local-mep-statistics | cfm-remote-meps | cfm-cross-connect-sessions | cfm-error-sessions | cfm-mep-statistics-mep-summary | cfm-local-mep-packet-statistics | cfm-remote-mep-brief-summary | cfm-ethdm-delay-entry | cfm-ethdm-oneway-delay-summary | cfm-ethdm-twoway-delay-summary)*>

```
<!ELEMENT cfm-error-session (cfm-session-defect-type | cfm-session-defect-description
| cfm-level | cfm-maintenance-domain-name | cfm-maintenance-domain-name-format |
cfm-maintenance-association-name | cfm-maintenance-association-name-format |
cfm-continuity-check-interval | cfm-mep-identifier)*>

<!ELEMENT cfm-error-session-count (#PCDATA)>

<!ELEMENT cfm-error-sessions (cfm-error-session-count | cfm-error-session)*>

<!ELEMENT cfm-ethdm-average-oneway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-average-oneway-delay-variation (#PCDATA)>

<!ELEMENT cfm-ethdm-average-twoway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-average-twoway-delay-variation (#PCDATA)>

<!ELEMENT cfm-ethdm-bestcase-oneway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-bestcase-twoway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-delay-entry (cfm-ethdm-delay-entry-index |
cfm-ethdm-oneway-delay | cfm-ethdm-twoway-delay)*>

<!ELEMENT cfm-ethdm-delay-entry-index (#PCDATA)>

<!ELEMENT cfm-ethdm-oneway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-oneway-delay-summary (cfm-ethdm-average-oneway-delay |
cfm-ethdm-average-oneway-delay-variation | cfm-ethdm-bestcase-oneway-delay |
cfm-ethdm-worstcase-oneway-delay)*>

<!ELEMENT cfm-ethdm-twoway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-twoway-delay-summary (cfm-ethdm-average-twoway-delay |
cfm-ethdm-average-twoway-delay-variation | cfm-ethdm-bestcase-twoway-delay |
cfm-ethdm-worstcase-twoway-delay)*>

<!ELEMENT cfm-ethdm-worstcase-oneway-delay (#PCDATA)>

<!ELEMENT cfm-ethdm-worstcase-twoway-delay (#PCDATA)>

<!ELEMENT cfm-filter (cfm-filter-name | cfm-filter-state | cfm-filter-term-count |
cfm-filter-term-attachment)*>
<!ATTLIST cfm-filter junos:style CDATA #IMPLIED>

<!ELEMENT cfm-filter-action (#PCDATA)>

<!ELEMENT cfm-filter-name (#PCDATA)>

<!ELEMENT cfm-filter-state (#PCDATA)>

<!ELEMENT cfm-filter-term (cfm-filter-term-name | cfm-filter-term-id | cfm-filter-term-state
| cfm-filter-term-key | cfm-filter-term-action | cfm-filter-term-action-details |
cfm-flood-nexthop-components)*>
<!ATTLIST cfm-filter-term junos:style CDATA #IMPLIED>
```

```
<!ELEMENT cfm-filter-term-action (#PCDATA)>

<!ELEMENT cfm-filter-term-action-details (#PCDATA)>

<!ELEMENT cfm-filter-term-attachment (#PCDATA)>

<!ELEMENT cfm-filter-term-count (#PCDATA)>

<!ELEMENT cfm-filter-term-id (#PCDATA)>

<!ELEMENT cfm-filter-term-key (#PCDATA)>

<!ELEMENT cfm-filter-term-name (#PCDATA)>

<!ELEMENT cfm-filter-term-state (#PCDATA)>

<!ELEMENT cfm-firewall-filter-instance-information (cfm-instance-name | cfm-filter |
cfm-filter-term)*>
<!ATTLIST cfm-firewall-filter-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-firewall-filter-interface-information (cfm-interface-name |
cfm-instance-name | cfm-filter | cfm-filter-term)*>
<!ATTLIST cfm-firewall-filter-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-flood-instance-information (cfm-instance-name |
cfm-num-active-customer-endpoint-iffs | cfm-num-active-vpn-endpoint-iffs |
cfm-flood-maintenance-domain-level)*>
<!ATTLIST cfm-flood-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-flood-interface-information (cfm-interface-name | cfm-instance-name |
cfm-flood-maintenance-domain-level)*>
<!ATTLIST cfm-flood-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-flood-maintenance-domain-level (cfm-level | cfm-local-mep-direction |
cfm-filter-action | cfm-nexthop-type | cfm-nexthop-index |
cfm-flood-nexthop-components)*>
<!ATTLIST cfm-flood-maintenance-domain-level junos:style CDATA #IMPLIED>

<!ELEMENT cfm-flood-nexthop-components (cfm-interface-name | cfm-interface-type |
cfm-interface-nexthop-type | cfm-interface-nexthop-index)*>

<!ELEMENT cfm-forwarding-table-filtering-simulation (#PCDATA)>

<!ELEMENT cfm-gres-flood-resynchronization (#PCDATA)>

<!ELEMENT cfm-hardware-assist-flooding (#PCDATA)>

<!ELEMENT cfm-instance-mip-information (cfm-instance-name |
cfm-maintenance-domain-mhf | cfm-maintenance-association-mhf |
cfm-default-maintenance-domain-mhf | cfm-interface-mip-information)*>

<!ELEMENT cfm-instance-name (#PCDATA)>

<!ELEMENT cfm-interface (cfm-interface-snapshot | cfm-entry)*>

<!ELEMENT cfm-interface-continuity-check (cfm-continuity-check-status |
cfm-continuity-check-interval | cfm-continuity-check-loss-threshold)*>
```

```
<!ELEMENT cfm-interface-entry (cfm-interface-name | cfm-interface-status |
cfm-interface-link-status)*>

<!ELEMENT cfm-interface-link-status (#PCDATA)>

<!ELEMENT cfm-interface-local-mep-defects (cfm-defect-remote-mep-no-ccm |
cfm-defect-error-ccm | cfm-defect-cross-connect-ccm | cfm-defect-rdi-in-some-mep |
cfm-defect-mac-status)*>

<!ELEMENT cfm-interface-local-mep-info (cfm-local-mep-identifier |
cfm-local-mep-direction | cfm-local-mep-mac-address | cfm-local-mep-status)*>

<!ELEMENT cfm-interface-local-mep-statistics (cfm-total-ccm-sent |
cfm-out-of-sequence-ccm-received | cfm-lbm-sent | cfm-lbr-sent | cfm-lbr-received |
cfm-lbr-received-out-of-order | cfm-lbr-bad-msdu | cfm-total-ltm-sent |
cfm-total-ltm-received | cfm-total-ltr-sent | cfm-total-ltr-received |
cfm-next-ltm-sequence-number | cfm-onedm-sent | cfm-onedm-received |
cfm-onedm-received-invalid | cfm-onedm-received-outofsync | cfm-dmm-sent |
cfm-dmm-received | cfm-dmm-received-invalid | cfm-dmr-sent | cfm-dmr-received |
cfm-dmr-received-invalid)*>

<!ELEMENT cfm-interface-local-mep-tlv-info (cfm-local-mep-interface-status-tlv |
cfm-local-mep-port-status-tlv)*>

<!ELEMENT cfm-interface-mip-information (cfm-interface-name | cfm-level)*>

<!ELEMENT cfm-interface-name (#PCDATA)>

<!ELEMENT cfm-interface-nexthop-index (#PCDATA)>

<!ELEMENT cfm-interface-nexthop-type (#PCDATA)>

<!ELEMENT cfm-interface-remote-meps (cfm-remote-mep-count | cfm-remote-mep)*>
<!ATTLIST cfm-interface-remote-meps junos:style CDATA #IMPLIED>

<!ELEMENT cfm-interface-session (cfm-interface-session-identifier |
cfm-interface-continuity-check | cfm-interface-local-mep-tlv-info |
cfm-interface-local-mep-info | cfm-interface-local-mep-defects |
cfm-interface-local-mep-statistics | cfm-interface-remote-meps)*>

<!ELEMENT cfm-interface-session-identifier (cfm-level | cfm-maintenance-domain-name |
cfm-maintenance-domain-name-format | cfm-maintenance-association-name |
cfm-maintenance-association-name-format)*>

<!ELEMENT cfm-interface-session-snapshot (cfm-level | cfm-mep-identifier |
cfm-remote-mep-count)*>

<!ELEMENT cfm-interface-sessions (cfm-interface-session)*>

<!ELEMENT cfm-interface-snapshot (cfm-interface-name | cfm-interface-link-status |
cfm-interface-status | cfm-interface-session-snapshot)*>
<!ATTLIST cfm-interface-snapshot junos:style CDATA #IMPLIED>

<!ELEMENT cfm-interface-status (#PCDATA)>

<!ELEMENT cfm-interface-type (#PCDATA)>
```

<!ELEMENT cfm-internal-instance-state (#PCDATA)>

<!ELEMENT cfm-internal-interface-state (#PCDATA)>

<!ELEMENT cfm-internal-session-state (#PCDATA)>

<!ELEMENT cfm-lbm-sent (#PCDATA)>

<!ELEMENT cfm-lbr-bad-msdu (#PCDATA)>

<!ELEMENT cfm-lbr-received (#PCDATA)>

<!ELEMENT cfm-lbr-received-out-of-order (#PCDATA)>

<!ELEMENT cfm-lbr-sent (#PCDATA)>

<!ELEMENT cfm-level (#PCDATA)>

<!ELEMENT cfm-linktrace-path-database (cfm-ltm-request-snapshot |
cfm-ltr-reply-entry)*>

<!ELEMENT cfm-local-mep (cfm-local-mep-identifier | cfm-local-mep-direction |
cfm-local-mep-mac-address | cfm-local-mep-auto-discovery | cfm-local-mep-priority |
cfm-local-mep-port-status-tlv | cfm-local-mep-interface-status-tlv |
cfm-local-mep-status)*>

<!ELEMENT cfm-local-mep-auto-discovery (#PCDATA)>

<!ELEMENT cfm-local-mep-defects (cfm-defect-remote-mep-no-ccm |
cfm-defect-error-ccm | cfm-defect-cross-connect-ccm | cfm-defect-rdi-in-some-mep |
cfm-defect-mac-status)*>

<!ELEMENT cfm-local-mep-direction (#PCDATA)>

<!ELEMENT cfm-local-mep-identifier (#PCDATA)>

<!ELEMENT cfm-local-mep-interface-status-tlv (#PCDATA)>

<!ELEMENT cfm-local-mep-mac-address (#PCDATA)>

<!ELEMENT cfm-local-mep-packet-statistics (cfm-total-ccm-sent |
cfm-out-of-sequence-ccm-received | cfm-lbm-sent | cfm-lbr-sent | cfm-lbr-received |
cfm-lbr-received-out-of-order | cfm-lbr-bad-msdu | cfm-total-ltm-sent |
cfm-total-ltm-received | cfm-total-ltr-sent | cfm-total-ltr-received |
cfm-next-ltm-sequence-number | cfm-onedm-sent | cfm-onedm-received |
cfm-onedm-received-invalid | cfm-onedm-received-outofsync | cfm-dmm-sent |
cfm-dmm-received | cfm-dmm-received-invalid | cfm-dmr-sent | cfm-dmr-received |
cfm-dmr-received-invalid)*>

<!ELEMENT cfm-local-mep-port-status-tlv (#PCDATA)>

<!ELEMENT cfm-local-mep-priority (#PCDATA)>

```
<!ELEMENT cfm-local-mep-statistics (cfm-total-ccm-sent |
cfm-out-of-sequence-ccm-received | cfm-lbm-sent | cfm-lbr-sent | cfm-lbr-received |
cfm-lbr-received-out-of-order | cfm-lbr-bad-msdu | cfm-total-ltm-sent |
cfm-total-ltm-received | cfm-total-ltr-sent | cfm-total-ltr-received |
cfm-next-ltm-sequence-number | cfm-onedm-sent | cfm-onedm-received |
cfm-onedm-received-invalid | cfm-onedm-received-outofsync | cfm-dmm-sent |
cfm-dmm-received | cfm-dmm-received-invalid | cfm-dmr-sent | cfm-dmr-received |
cfm-dmr-received-invalid)*>

<!ELEMENT cfm-local-mep-status (#PCDATA)>

<!ELEMENT cfm-ltm-request-snapshot (cfm-interface-name | cfm-level |
cfm-maintenance-domain-name | cfm-maintenance-association-name |
cfm-local-mep-identifier | cfm-ltm-target-mac-address)*>

<!ELEMENT cfm-ltm-target-mac-address (#PCDATA)>

<!ELEMENT cfm-ltm-transaction-identifier (#PCDATA)>

<!ELEMENT cfm-ltr-mep-mip-mac-address (#PCDATA)>

<!ELEMENT cfm-ltr-next-hop-mac-address (#PCDATA)>

<!ELEMENT cfm-ltr-reply-entry (cfm-ltm-transaction-identifier |
cfm-ltr-request-hop-identifier | cfm-ltr-reply-ttl | cfm-ltr-mep-mip-mac-address |
cfm-ltr-next-hop-mac-address)*>

<!ELEMENT cfm-ltr-reply-ttl (#PCDATA)>

<!ELEMENT cfm-ltr-request-hop-identifier (#PCDATA)>

<!ELEMENT cfm-maintenance-association-mhf (#PCDATA)>

<!ELEMENT cfm-maintenance-association-name (#PCDATA)>

<!ELEMENT cfm-maintenance-association-name-format (#PCDATA)>

<!ELEMENT cfm-maintenance-domain-mhf (#PCDATA)>

<!ELEMENT cfm-maintenance-domain-name (#PCDATA)>

<!ELEMENT cfm-maintenance-domain-name-format (#PCDATA)>

<!ELEMENT cfm-mep-database (cfm-entry)*>

<!ELEMENT cfm-mep-database-continuity-check (cfm-continuity-check-status |
cfm-continuity-check-interval | cfm-continuity-check-loss-threshold)*>

<!ELEMENT cfm-mep-database-interface (cfm-interface-name | cfm-interface-status |
cfm-interface-link-status)*>

<!ELEMENT cfm-mep-database-session (cfm-maintenance-domain-name |
cfm-maintenance-domain-name-format | cfm-level | cfm-maintenance-association-name |
cfm-maintenance-association-name-format)*>

<!ELEMENT cfm-mep-identifier (#PCDATA)>
```

```
<!ELEMENT cfm-mep-statistics (cfm-entry)*>

<!ELEMENT cfm-mep-statistics-mep-summary (cfm-local-mep-identifier |
cfm-local-mep-mac-address | cfm-remote-mep-count)*>

<!ELEMENT cfm-mhf-type (#PCDATA)>

<!ELEMENT cfm-mip-information (cfm-instance-mip-information)*>

<!ELEMENT cfm-next-ltm-sequence-number (#PCDATA)>

<!ELEMENT cfm-nexthop-index (#PCDATA)>

<!ELEMENT cfm-nexthop-information (cfm-nexthop-index | cfm-nexthop-type |
cfm-nexthop-last-operation | cfm-nexthop-last-error | cfm-nexthop-statistics |
cfm-nexthop-reference-count | cfm-nexthop-owner | cfm-level |
cfm-flood-nexthop-components)*>
<!ATTLIST cfm-nexthop-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-nexthop-last-error (#PCDATA)>

<!ELEMENT cfm-nexthop-last-operation (#PCDATA)>

<!ELEMENT cfm-nexthop-owner (#PCDATA)>

<!ELEMENT cfm-nexthop-reference-count (#PCDATA)>

<!ELEMENT cfm-nexthop-statistics (#PCDATA)>

<!ELEMENT cfm-nexthop-type (#PCDATA)>

<!ELEMENT cfm-num-active-customer-endpoint-iffs (#PCDATA)>

<!ELEMENT cfm-num-active-vpn-endpoint-iffs (#PCDATA)>

<!ELEMENT cfm-onedm-received (#PCDATA)>

<!ELEMENT cfm-onedm-received-invalid (#PCDATA)>

<!ELEMENT cfm-onedm-received-outofsync (#PCDATA)>

<!ELEMENT cfm-onedm-sent (#PCDATA)>

<!ELEMENT cfm-out-of-sequence-ccm-received (#PCDATA)>

<!ELEMENT cfm-ppmd-blocked-count (#PCDATA)>

<!ELEMENT cfm-ppmd-connection-state (#PCDATA)>

<!ELEMENT cfm-ppmd-flow-state (#PCDATA)>

<!ELEMENT cfm-ppmd-job-state (#PCDATA)>

<!ELEMENT cfm-remote-mep (cfm-remote-mep-identifier | cfm-remote-mep-state |
cfm-remote-mep-mac-address | cfm-remote-mep-interface | cfm-remote-mep-type |
cfm-remote-mep-rdi | cfm-remote-mep-last-flapped | cfm-remote-mep-port-status-tlv |
cfm-remote-mep-interface-status-tlv)*>
```

```
<!ELEMENT cfm-remote-mep-ap (cfm-action-profile-name | cfm-ap-last-event |
cfm-ap-action-name | cfm-ap-action-time | cfm-ap-last-event-cleared-time)*>

<!ELEMENT cfm-remote-mep-brief-summary (cfm-remote-mep-identifier |
cfm-remote-mep-mac-address)*>

<!ELEMENT cfm-remote-mep-count (#PCDATA)>

<!ELEMENT cfm-remote-mep-identifier (#PCDATA)>

<!ELEMENT cfm-remote-mep-interface (#PCDATA)>

<!ELEMENT cfm-remote-mep-interface-status-tlv (#PCDATA)>

<!ELEMENT cfm-remote-mep-last-flapped (#PCDATA)>

<!ELEMENT cfm-remote-mep-mac-address (#PCDATA)>

<!ELEMENT cfm-remote-mep-port-status-tlv (#PCDATA)>

<!ELEMENT cfm-remote-mep-rdi (#PCDATA)>

<!ELEMENT cfm-remote-mep-state (#PCDATA)>

<!ELEMENT cfm-remote-mep-type (#PCDATA)>

<!ELEMENT cfm-remote-meps (cfm-remote-mep-count | cfm-remote-mep |
cfm-remote-mep-ap)*>
<!ATTLIST cfm-remote-meps junos:style CDATA #IMPLIED>

<!ELEMENT cfm-route-information (cfm-route-prefix | cfm-nexthop-index |
cfm-route-last-operation | cfm-route-last-error | cfm-route-statistics | cfm-level |
cfm-route-table-index | cfm-route-owner | cfm-flood-nexthop-components)*>
<!ATTLIST cfm-route-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-route-last-error (#PCDATA)>

<!ELEMENT cfm-route-last-operation (#PCDATA)>

<!ELEMENT cfm-route-maintenance-domain-level (cfm-level | cfm-local-mep-direction |
cfm-transmit-route-prefix | cfm-nexthop-index | cfm-flood-nexthop-components)*>
<!ATTLIST cfm-route-maintenance-domain-level junos:style CDATA #IMPLIED>

<!ELEMENT cfm-route-owner (#PCDATA)>

<!ELEMENT cfm-route-prefix (#PCDATA)>

<!ELEMENT cfm-route-socket-message-add (#PCDATA)>

<!ELEMENT cfm-route-socket-message-change (#PCDATA)>

<!ELEMENT cfm-route-socket-message-counters (cfm-route-socket-message-type |
cfm-route-socket-message-add | cfm-route-socket-message-change |
cfm-route-socket-message-delete)*>

<!ELEMENT cfm-route-socket-message-delete (#PCDATA)>
```

```
<!ELEMENT cfm-route-socket-message-type (#PCDATA)>

<!ELEMENT cfm-route-statistics (#PCDATA)>

<!ELEMENT cfm-route-table-index (#PCDATA)>

<!ELEMENT cfm-session-count (#PCDATA)>

<!ELEMENT cfm-session-created-count (#PCDATA)>

<!ELEMENT cfm-session-defect-description (#PCDATA)>

<!ELEMENT cfm-session-defect-type (#PCDATA)>

<!ELEMENT cfm-session-deleted-count (#PCDATA)>

<!ELEMENT cfm-session-freed-count (#PCDATA)>

<!ELEMENT cfm-shared-interface-filters (#PCDATA)>

<!ELEMENT cfm-token-based-forwarding (#PCDATA)>

<!ELEMENT cfm-total-ccm-sent (#PCDATA)>

<!ELEMENT cfm-total-ltm-received (#PCDATA)>

<!ELEMENT cfm-total-ltm-sent (#PCDATA)>

<!ELEMENT cfm-total-ltr-received (#PCDATA)>

<!ELEMENT cfm-total-ltr-sent (#PCDATA)>

<!ELEMENT cfm-transmit-interface-information (cfm-interface-name | cfm-instance-name
| cfm-route-maintenance-domain-level)*>
<!ATTLIST cfm-transmit-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT cfm-transmit-route-prefix (#PCDATA)>

<!ELEMENT cfm-vpls (#PCDATA)>

<!ELEMENT cfmd-clear-delay-statistics (#PCDATA)>

<!ELEMENT cfmd-clear-path-database (#PCDATA)>

<!ELEMENT cfmd-clear-statistics (#PCDATA)>

<!ELEMENT cfmd-internal-state (cfm-session-count | cfm-session-created-count |
cfm-session-deleted-count | cfm-session-freed-count | cfm-vpls |
cfm-token-based-forwarding | cfm-forwarding-table-filtering-simulation |
cfm-hardware-assist-flooding | cfm-gres-flood-resynchronization |
cfm-shared-interface-filters | cfm-ppmd-connection-state | cfm-ppmd-flow-state |
cfm-ppmd-job-state | cfm-ppmd-blocked-count | cfm-dfwd-connection-state |
cfm-dfwd-reconnect-count | cfm-dfwd-requests-sent | cfm-dfwd-requests-accepted |
cfm-dfwd-requests-rejected | cfm-dfwd-requests-lost | cfm-dfwd-pending-transactions)*>
```

Chapter 15

DTD for Chassis Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-chassis.dtd, which lists the JUNOS XML tags that contain information about the routing platform chassis. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-chassis. To review reference pages for the tags, see "Summary of Chassis Response Tags" on page 623.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-chassis.dtd –>

<!ELEMENT ac-input (#PCDATA)>

<!ELEMENT activate-count (#PCDATA)>

<!ELEMENT active-led EMPTY>

<!ELEMENT active-time (#PCDATA)>
<!ATTLIST active-time junos:seconds CDATA #IMPLIED>

<!ELEMENT actual-voltage (#PCDATA)>

<!ELEMENT address (#PCDATA)>

<!ELEMENT alarm-indicators (red-led | yellow-led | major-alarm-relay |
minor-alarm-relay)*>

<!ELEMENT altitude (#PCDATA)>
<!ATTLIST altitude junos:format CDATA #IMPLIED>

<!ELEMENT amber-led EMPTY>

<!ELEMENT asic-information (#PCDATA)>

<!ELEMENT asic-name (#PCDATA)>

<!ELEMENT asic-type (#PCDATA)>

<!ELEMENT assembly-flags (#PCDATA)>

<!ELEMENT assembly-identifier (#PCDATA)>

<!ELEMENT assembly-version (#PCDATA)>

<!ELEMENT automatic-switching (#PCDATA)>

<!ELEMENT bad-fan-red-alarm (#PCDATA)>
<!ATTLIST bad-fan-red-alarm junos:celsius CDATA #IMPLIED>

<!ELEMENT bad-fan-yellow-alarm (#PCDATA)>
<!ATTLIST bad-fan-yellow-alarm junos:celsius CDATA #IMPLIED>

<!ELEMENT bios-date (#PCDATA)>

<!ELEMENT bios-id (#PCDATA)>

<!ELEMENT bios-version (#PCDATA)>

<!ELEMENT blink-led EMPTY>

<!ELEMENT blue-led EMPTY>

<!ELEMENT board-information-record (#PCDATA)>
```

```
<!ELEMENT building (#PCDATA)>

<!ELEMENT bus-revision (#PCDATA)>

<!ELEMENT cable-type (#PCDATA)>

<!ELEMENT cb (slot | amber-led | green-led | blue-led)*>

<!ELEMENT cb-panel (cb)*>

<!ELEMENT cb-slot (#PCDATA)>

<!ELEMENT cfm-ok-fail-led (red-led | yellow-led | amber-led)*>

<!ELEMENT cfm-service-led (red-led | yellow-led | amber-led)*>

<!ELEMENT chassis (hardware-incomplete | name | version | part-number |
serial-number | model-number | clei-code | description | i2c-information |
chassis-module)*>
<!ATTLIST chassis junos:style CDATA #IMPLIED>

<!ELEMENT chassis-inventory (chassis)*>

<!ELEMENT chassis-location (chassis-location-information)*>

<!ELEMENT chassis-location-fpc (chassis-location-fpc-information)*>

<!ELEMENT chassis-location-fpc-information (global-fpc-number | lcc-number |
local-fpc-number)*>

<!ELEMENT chassis-location-information (country-code | postal-code | npa-nxx | latitude
| longitude | altitude | lata | vcoord | hcoord | building | floor | rack)*>

<!ELEMENT chassis-module (name | version | part-number | serial-number |
model-number | clei-code | description | i2c-information | firmware | chassis-sub-module
| chassis-re-disk-module | chassis-re-usb-module)*>

<!ELEMENT chassis-re-disk-module (name | model | serial-number | disk-size |
description)*>

<!ELEMENT chassis-re-usb-module (name | product | product-number | vendor |
description)*>

<!ELEMENT chassis-sub-module (name | version | part-number | serial-number |
model-number | clei-code | description | i2c-information | firmware |
chassis-sub-sub-module)*>

<!ELEMENT chassis-sub-sub-module (name | version | part-number | serial-number |
model-number | clei-code | description)*>

<!ELEMENT chassisd-database-memory-usage (database-memory-usage)*>

<!ELEMENT class (#PCDATA)>

<!ELEMENT clei-code (#PCDATA)>

<!ELEMENT clock-fru (#PCDATA)>
```

```
<!ELEMENT clock-state (#PCDATA)>

<!ELEMENT clock-synchronization (clock-fru | mastership-state | signal-type |
switching-mode | line-termination | transmit | validation-interval | automatic-switching |
marked-as-failed-source-list | synchronization-source-list)*>

<!ELEMENT clock-synchronization-information (clock-synchronization)*>

<!ELEMENT cmb-revision (#PCDATA)>

<!ELEMENT comment (#PCDATA)>

<!ELEMENT configured-mode (#PCDATA)>

<!ELEMENT configured-source (source-priority | source-name | deviation | last-deviation
| status)*>

<!ELEMENT configured-source-list (configured-source)*>

<!ELEMENT connected-fpcs (#PCDATA)>
<!ATTLIST connected-fpcs junos:format CDATA #IMPLIED>

<!ELEMENT connectivity-led0 (#PCDATA)>

<!ELEMENT connectivity-led1 (#PCDATA)>

<!ELEMENT connectivity-led2 (#PCDATA)>

<!ELEMENT connectivity-led3 (#PCDATA)>

<!ELEMENT connectivity-led4 (#PCDATA)>

<!ELEMENT connectivity-led5 (#PCDATA)>

<!ELEMENT control-plane-cpu-count (#PCDATA)>

<!ELEMENT controller-guardband (#PCDATA)>

<!ELEMENT controller-information (controller-number | controller-maxpower |
controller-power | controller-guardband | controller-management)*>

<!ELEMENT controller-management (#PCDATA)>

<!ELEMENT controller-maxpower (#PCDATA)>

<!ELEMENT controller-number (#PCDATA)>

<!ELEMENT controller-power (#PCDATA)>

<!ELEMENT country-code (#PCDATA)>

<!ELEMENT cpu-background (#PCDATA)>

<!ELEMENT cpu-idle (#PCDATA)>

<!ELEMENT cpu-interrupt (#PCDATA)>
```

<!ELEMENT cpu-less-info-str (#PCDATA)>

<!ELEMENT cpu-real-time (#PCDATA)>

<!ELEMENT cpu-rom-version (#PCDATA)>

<!ELEMENT cpu-sw-version (#PCDATA)>

<!ELEMENT cpu-system (#PCDATA)>

<!ELEMENT cpu-temperature (#PCDATA)>

<!ELEMENT cpu-total (#PCDATA)>

<!ELEMENT cpu-total-rt (#PCDATA)>

<!ELEMENT cpu-total-ukern (#PCDATA)>

<!ELEMENT cpu-user (#PCDATA)>

<!ELEMENT craft-information (front-panel | recb-panel | mcs-panel | sfm-panel | pcg-panel | cb-panel | sib-panel | scg-panel | feb-panel | power-supply-panel | fan-tray-panel | output)*>

<!ELEMENT current-source (clock-state | up-time | active-time | deviation | last-deviation)*>

<!ELEMENT data (#PCDATA)>

<!ELEMENT data-plane-cpu-count (#PCDATA)>

<!ELEMENT database-allocated-size (#PCDATA)>

<!ELEMENT database-free-size (#PCDATA)>

<!ELEMENT database-memory-usage (database-size | database-allocated-size | database-free-size)*>

<!ELEMENT database-size (#PCDATA)>

<!ELEMENT dc-current (#PCDATA)>

<!ELEMENT dc-detail (dc-device | dc-voltage | dc-current | dc-power | dc-load)*>

<!ELEMENT dc-device (#PCDATA)>

<!ELEMENT dc-information (dc-input | dc-output | dc-detail)*>

<!ELEMENT dc-input (#PCDATA)>

<!ELEMENT dc-load (#PCDATA)>

<!ELEMENT dc-output (#PCDATA)>

<!ELEMENT dc-power (#PCDATA)>

```
<!ELEMENT dc-voltage (#PCDATA)>

<!ELEMENT description (#PCDATA)>

<!ELEMENT deviation (#PCDATA)>

<!ELEMENT disk-size (#PCDATA)>

<!ELEMENT display-line (#PCDATA)>

<!ELEMENT display-panel (display-line)*>

<!ELEMENT eeprom-version (#PCDATA)>

<!ELEMENT environment-component-information (environment-component-item)*>

<!ELEMENT environment-component-item (name | state | temperature-reading |
bus-revision | cmb-revision | fpga-revision | fpga-revision-detail | slave-revision | reason |
revision | slave-registers-information | fpga-registers | power-information | frequency |
pcg-frequency | dc-information | load | ac-input)*>

<!ELEMENT environment-information (environment-item)*>

<!ELEMENT environment-item (class | name | status | temperature | comment)*>

<!ELEMENT error-code (#PCDATA)>

<!ELEMENT even-odd (#PCDATA)>

<!ELEMENT exhaust-a-temperature (#PCDATA)>

<!ELEMENT exhaust-b-temperature (#PCDATA)>

<!ELEMENT exhaust-temperature (#PCDATA)>

<!ELEMENT f13-slot (#PCDATA)>

<!ELEMENT f2-link-state (#PCDATA)>

<!ELEMENT fabric-header (#PCDATA)>

<!ELEMENT fabric-plane-number (#PCDATA)>

<!ELEMENT fabric-plane-status (#PCDATA)>

<!ELEMENT fail-led EMPTY>

<!ELEMENT failover-count (#PCDATA)>

<!ELEMENT fan-high-speed (#PCDATA)>
<!ATTLIST fan-high-speed junos:celsius CDATA #IMPLIED>

<!ELEMENT fan-information (name | status | rpm | comment | fan-information-item)*>

<!ELEMENT fan-information-item (#PCDATA)>

<!ELEMENT fan-normal-speed (#PCDATA)>
```

```
<!ATTLIST fan-normal-speed junos:celsius CDATA #IMPLIED>

<!ELEMENT fan-tray (slot | red-led | green-led)*>

<!ELEMENT fan-tray-panel (fan-tray)*>

<!ELEMENT fchip-id (#PCDATA)>

<!ELEMENT feb (slot | ok-led | fail-led | active-led)*>

<!ELEMENT feb-active-led (#PCDATA)>

<!ELEMENT feb-fail-led (#PCDATA)>

<!ELEMENT feb-harderror-state (#PCDATA)>

<!ELEMENT feb-led (feb-slot | feb-state | feb-ok-led | feb-fail-led | feb-active-led |
connectivity-led0 | connectivity-led1 | connectivity-led2 | connectivity-led3 |
connectivity-led4 | connectivity-led5)*>

<!ELEMENT feb-led-information (feb-led)*>

<!ELEMENT feb-ok-led (#PCDATA)>

<!ELEMENT feb-panel (feb)*>

<!ELEMENT feb-redundancy-autofailover (#PCDATA)>

<!ELEMENT feb-redundancy-error-information (feb-redundancy-group-errors)*>

<!ELEMENT feb-redundancy-group-description (#PCDATA)>

<!ELEMENT feb-redundancy-group-errors (feb-redundancy-group-name |
feb-redundancy-group-description | feb-redundancy-group-feb-errors)*>

<!ELEMENT feb-redundancy-group-feb-errors (feb-slot | feb-state | feb-harderror-state |
feb-redundancy-group-feb-fpc-errors | feb-redundancy-group-feb-fabric-plane-errors)*>

<!ELEMENT feb-redundancy-group-feb-fabric-plane-errors (fabric-plane-number |
fabric-plane-status)*>

<!ELEMENT feb-redundancy-group-feb-fpc-errors (fpc-slot | fpc-link-status)*>

<!ELEMENT feb-redundancy-group-information (feb-redundancy-group-name |
feb-redundancy-group-description | feb-redundancy-group-information-item |
feb-redundancy-autofailover | feb-redundancy-switch-reason)*>

<!ELEMENT feb-redundancy-group-information-item (feb-slot | feb-state |
redundancy-priority | connected-fpcs | redundancy-state |
redundancy-state-description)*>

<!ELEMENT feb-redundancy-group-name (#PCDATA)>

<!ELEMENT feb-redundancy-information (feb-redundancy-group-information)*>

<!ELEMENT feb-redundancy-switch-reason (#PCDATA)>
```

```
<!ELEMENT feb-slot (#PCDATA)>

<!ELEMENT feb-state (#PCDATA)>

<!ELEMENT fiber-mode (#PCDATA)>

<!ELEMENT firmware (type | firmware-version)*>

<!ELEMENT firmware-action (#PCDATA)>

<!ELEMENT firmware-information (chassis)*>

<!ELEMENT firmware-name (#PCDATA)>

<!ELEMENT firmware-revision (#PCDATA)>

<!ELEMENT firmware-revision-available (#PCDATA)>

<!ELEMENT firmware-status (#PCDATA)>

<!ELEMENT firmware-tag (#PCDATA)>

<!ELEMENT firmware-type (#PCDATA)>

<!ELEMENT firmware-version (#PCDATA)>

<!ELEMENT firmware-version-mismatch (routing-engine-software-version |
jfirmware-version)*>

<!ELEMENT floor (#PCDATA)>

<!ELEMENT fm-fpc-ln (slot | fm-pfe-ln)*>

<!ELEMENT fm-fpc-state-information (fm-fpc-ln)*>
<!ATTLIST fm-fpc-state-information junos:style CDATA #IMPLIED>

<!ELEMENT fm-pfe-ln (pfe-slot | fm-sib-ln)*>

<!ELEMENT fm-plane-location (plane | sib-f13-slot | sib-f2-slot | sib-l-slot)*>

<!ELEMENT fm-plane-location-information (fm-plane-location)*>

<!ELEMENT fm-plane-state-information (fabric-header | fmp-plane)*>
<!ATTLIST fm-plane-state-information junos:style CDATA #IMPLIED>

<!ELEMENT fm-sib-ln (sib-slot | sib-fm-state)*>

<!ELEMENT fm-sib-state-information (fms-sib-ln)*>
<!ATTLIST fm-sib-state-information junos:style CDATA #IMPLIED>

<!ELEMENT fmp-plane (slot | state | up-time | comment | sib-name | sib-f13-name |
sib-f2-name | sibs-slot | sibs2-slot | plane-state | even-odd | sibl-slot | lcc-slot | f13-slot |
sibl-link-state | sgasic-number | sgasic-port-number | sgasic-port-link-state |
lcc-sgasic-number | lcc-sgasic-port-number | lcc-sgasic-port-link-state | f2-link-state |
lcc-pfe-slot | lcc-fpc-slot | lcc-pfe-link-state | lcc-sib-link-state)*>

<!ELEMENT fms-fpc-ln (slot | fms-pfe-ln)*>
```

```
<!ELEMENT fms-lcc-link-state (#PCDATA)>

<!ELEMENT fms-lcc-ln (lcc-slot | fms-lcc-link-state)*>

<!ELEMENT fms-pfe-link-state (#PCDATA)>

<!ELEMENT fms-pfe-ln (pfe-slot | fms-pfe-link-state)*>

<!ELEMENT fms-scc-link-state (#PCDATA)>

<!ELEMENT fms-scc-ln (fms-scc-link-state)*>

<!ELEMENT fms-sib-ln (sib-slot | sib-fm-state | fms-fpc-ln | fms-lcc-ln | fms-scc-ln)*>

<!ELEMENT fpc (slot | logical-slot | state | description | error-code | temperature |
cpu-total | cpu-interrupt | cpu-less-info-str | memory-dram-size | memory-sram-size |
memory-sdram-size | memory-rldram-size | memory-ddr-dram-size |
memory-notification-sdram-size | memory-heap-utilization | memory-buffer-utilization |
asic-information | start-time | up-time | comment | pic | pic-detail | red-led | green-led)*>

<!ELEMENT fpc-feb-connectivity (fpc-feb-connectivity-item)*>

<!ELEMENT fpc-feb-connectivity-item (fpc-slot | fpc-type | fpc-state | feb-slot | no-feb-slot
| feb-state | fpc-link-status)*>

<!ELEMENT fpc-firmware-version (#PCDATA)>

<!ELEMENT fpc-information (fpc | fpc-slot | fpc-power-limit | fpc-priority | fpc-power |
fpc-status | fpc-firmware-version)*>
<!ATTLIST fpc-information junos:style CDATA #IMPLIED>

<!ELEMENT fpc-link-status (#PCDATA)>

<!ELEMENT fpc-number (#PCDATA)>

<!ELEMENT fpc-panel (fpc)*>

<!ELEMENT fpc-power (#PCDATA)>

<!ELEMENT fpc-power-limit (#PCDATA)>

<!ELEMENT fpc-priority (#PCDATA)>

<!ELEMENT fpc-slot (#PCDATA)>

<!ELEMENT fpc-state (#PCDATA)>

<!ELEMENT fpc-status (#PCDATA)>

<!ELEMENT fpc-type (#PCDATA)>

<!ELEMENT fpga-registers (fpga-registers-name | fpga-registers-value)*>

<!ELEMENT fpga-registers-name (#PCDATA)>

<!ELEMENT fpga-registers-value (#PCDATA)>
```

```
<!ELEMENT fpga-revision (#PCDATA)>

<!ELEMENT fpga-revision-detail (fpga-revision-name | fpga-revision-value)*>

<!ELEMENT fpga-revision-name (#PCDATA)>

<!ELEMENT fpga-revision-value (#PCDATA)>

<!ELEMENT frequency (#PCDATA)>

<!ELEMENT front-panel (display-panel | re-panel | alarm-indicators | fpc-panel)*>

<!ELEMENT fru (slot | state | up-time | comment)*>

<!ELEMENT fru-information (fru)*>
<!ATTLIST fru-information junos:style CDATA #IMPLIED>

<!ELEMENT fru-name (#PCDATA)>

<!ELEMENT fru-reason (#PCDATA)>

<!ELEMENT fru-status (#PCDATA)>

<!ELEMENT global-fpc-number (#PCDATA)>

<!ELEMENT green-led EMPTY>

<!ELEMENT ha-led (red-led | yellow-led | amber-led)*>

<!ELEMENT hardware-incomplete EMPTY>

<!ELEMENT hcoord (#PCDATA)>

<!ELEMENT i2c-data (#PCDATA)>

<!ELEMENT i2c-identifier (#PCDATA)>

<!ELEMENT i2c-information (jedec-code | eeprom-version | part-number | serial-number |
model-number | clei-code | assembly-identifier | assembly-version | manufacture-date |
assembly-flags | i2c-version | i2c-identifier | i2c-data | board-information-record)*>

<!ELEMENT i2c-version (#PCDATA)>

<!ELEMENT in-service-upgrade-fru-status (fru-name | fru-status | fru-reason |
in-service-upgrade-pic-status)*>

<!ELEMENT in-service-upgrade-pic-status (fru-name | fru-status | fru-reason)*>

<!ELEMENT in-service-upgrade-status (in-service-upgrade-fru-status)*>

<!ELEMENT intake-temperature (#PCDATA)>

<!ELEMENT interface-class (#PCDATA)>

<!ELEMENT interface-class-detail (#PCDATA)>
```

<!ELEMENT interface-enabled (#PCDATA)>

<!ELEMENT interface-enabled-detail (#PCDATA)>

<!ELEMENT interface-information (interface-name | interface-enabled | interface-status | interface-power-limit | interface-priority | interface-power | interface-class)*>

<!ELEMENT interface-information-detail (interface-name-detail | interface-enabled-detail | interface-status-detail | interface-power-limit-detail | interface-priority-detail | interface-power-detail | interface-class-detail)*>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-name-detail (#PCDATA)>

<!ELEMENT interface-power (#PCDATA)>

<!ELEMENT interface-power-detail (#PCDATA)>

<!ELEMENT interface-power-limit (#PCDATA)>

<!ELEMENT interface-power-limit-detail (#PCDATA)>

<!ELEMENT interface-priority (#PCDATA)>

<!ELEMENT interface-priority-detail (#PCDATA)>

<!ELEMENT interface-status (#PCDATA)>

<!ELEMENT interface-status-detail (#PCDATA)>

<!ELEMENT ioc-npc-connectivity (ioc-npc-connectivity-item)*>

<!ELEMENT ioc-npc-connectivity-item (ioc-slot | ioc-type | ioc-state | npc-slot | no-npc-slot | npc-state | fpc-link-status)*>

<!ELEMENT ioc-slot (#PCDATA)>

<!ELEMENT ioc-state (#PCDATA)>

<!ELEMENT ioc-type (#PCDATA)>

<!ELEMENT jedec-code (#PCDATA)>

<!ELEMENT jfirmware-version (#PCDATA)>

<!ELEMENT last-deviation (#PCDATA)>

<!ELEMENT last-reboot-reason (#PCDATA)>

<!ELEMENT lata (#PCDATA)>

<!ELEMENT latitude (#PCDATA)>

<!ELEMENT lcc (slot | state | up-time | comment)*>

<!ELEMENT lcc-fpc-slot (#PCDATA)>

```
<!ELEMENT lcc-information (lcc)*>
<!ATTLIST lcc-information junos:style CDATA #IMPLIED>

<!ELEMENT lcc-number (#PCDATA)>

<!ELEMENT lcc-pfe-link-state (#PCDATA)>

<!ELEMENT lcc-pfe-slot (#PCDATA)>

<!ELEMENT lcc-sgasic-number (#PCDATA)>

<!ELEMENT lcc-sgasic-port-link-state (#PCDATA)>

<!ELEMENT lcc-sgasic-port-number (#PCDATA)>

<!ELEMENT lcc-sib-link-state (#PCDATA)>

<!ELEMENT lcc-slot (#PCDATA)>

<!ELEMENT line-termination (#PCDATA)>

<!ELEMENT load (#PCDATA)>

<!ELEMENT load-average-fifteen (#PCDATA)>

<!ELEMENT load-average-five (#PCDATA)>

<!ELEMENT load-average-one (#PCDATA)>

<!ELEMENT local-fpc-number (#PCDATA)>

<!ELEMENT logical-slot (#PCDATA)>

<!ELEMENT longitude (#PCDATA)>

<!ELEMENT major-alarm-relay EMPTY>

<!ELEMENT manufacture-date (#PCDATA)>

<!ELEMENT marked-as-failed-source (source-name)*>

<!ELEMENT marked-as-failed-source-list (marked-as-failed-source)*>

<!ELEMENT master-led EMPTY>

<!ELEMENT mastership-priority (#PCDATA)>

<!ELEMENT mastership-state (#PCDATA)>

<!ELEMENT mcs (slot | amber-led | green-led | blue-led)*>

<!ELEMENT mcs-panel (mcs)*>

<!ELEMENT memory-buffer-utilization (#PCDATA)>

<!ELEMENT memory-ddr-dram-size (#PCDATA)>
```

```
<!ELEMENT memory-dram-size (#PCDATA)>

<!ELEMENT memory-heap-utilization (#PCDATA)>

<!ELEMENT memory-notification-sdram-size (#PCDATA)>

<!ELEMENT memory-rldram-size (#PCDATA)>

<!ELEMENT memory-sdram-size (#PCDATA)>

<!ELEMENT memory-sram-size (#PCDATA)>

<!ELEMENT minor-alarm-relay EMPTY>

<!ELEMENT model (#PCDATA)>

<!ELEMENT model-number (#PCDATA)>

<!ELEMENT multi-routing-engine-item (re-name | chassis-location-information |
chassisd-database-memory-usage | chassis-inventory | environment-information |
fpc-information | spmb-information | sib-information | fm-fpc-state-information |
fm-sib-state-information | scb-information | route-engine-information |
firmware-information | system-firmware-information |
system-firmware-compatibility-information)*>

<!ELEMENT multi-routing-engine-results (multi-routing-engine-item)*>

<!ELEMENT name (#PCDATA)>

<!ELEMENT network-services (network-services-information)*>

<!ELEMENT network-services-information (name)*>

<!ELEMENT no-feb-slot EMPTY>

<!ELEMENT no-npc-slot EMPTY>

<!ELEMENT notification-information (fpc-number | notification-status)*>

<!ELEMENT notification-status (#PCDATA)>

<!ELEMENT npa-nxx (#PCDATA)>

<!ELEMENT npc-slot (#PCDATA)>

<!ELEMENT npc-state (#PCDATA)>

<!ELEMENT ok-led EMPTY>

<!ELEMENT output (#PCDATA)>

<!ELEMENT part-number (#PCDATA)>

<!ELEMENT pcg (slot | amber-led | green-led | blue-led)*>

<!ELEMENT pcg-frequency (pcg-frequency-setting | pcg-frequency-measurement)*>
```

<!ELEMENT pcg-frequency-measurement (#PCDATA)>

<!ELEMENT pcg-frequency-setting (#PCDATA)>

<!ELEMENT pcg-panel (pcg)*>

<!ELEMENT pfe-slot (#PCDATA)>

<!ELEMENT physical-slot (#PCDATA)>

<!ELEMENT pic (pic-slot | pic-type | pic-state | comment)*>

<!ELEMENT pic-clock-sync (#PCDATA)>

<!ELEMENT pic-detail (slot | pic-slot | pic-type | asic-type | comment | pic-version | state | cpu-total | cpu-interrupt | memory-buffer-utilization | memory-heap-utilization | memory-dram-size | cpu-sw-version | cpu-rom-version | up-time | pic-package | pic-clock-sync | configured-mode | port-information)*>

<!ELEMENT pic-package (#PCDATA)>

<!ELEMENT pic-slot (#PCDATA)>

<!ELEMENT pic-state (#PCDATA)>

<!ELEMENT pic-type (#PCDATA)>

<!ELEMENT pic-version (#PCDATA)>

<!ELEMENT plane (#PCDATA)>

<!ELEMENT plane-state (#PCDATA)>

<!ELEMENT poe (interface-information | interface-information-detail | notification-information | controller-information | telemetries-information | fpc-information)*>

<!ELEMENT port (port-number | cable-type | fiber-mode | sfp-vendor-name | sfp-vendor-pno | wavelength)*>

<!ELEMENT port-information (port)*>

<!ELEMENT port-number (#PCDATA)>

<!ELEMENT postal-code (#PCDATA)>

<!ELEMENT power-information (power-title | voltage-title | voltage)*>

<!ELEMENT power-management (power-mgmt-device | power-mgmt-low-power | power-mgmt-high-power | power-mgmt-heat | power-mgmt-state)*>

<!ELEMENT power-management-information (power-management)*>

<!ELEMENT power-mgmt-device (#PCDATA)>

<!ELEMENT power-mgmt-heat (#PCDATA)>

```
<!ELEMENT power-mgmt-high-power (#PCDATA)>

<!ELEMENT power-mgmt-low-power (#PCDATA)>

<!ELEMENT power-mgmt-state (#PCDATA)>

<!ELEMENT power-state (#PCDATA)>

<!ELEMENT power-supply (slot | amber-led | green-led | blue-led)*>

<!ELEMENT power-supply-panel (power-supply)*>

<!ELEMENT power-title (power-type | power-state)*>

<!ELEMENT power-type (#PCDATA)>

<!ELEMENT product (#PCDATA)>

<!ELEMENT product-number (#PCDATA)>

<!ELEMENT psd (slot | description | state | up-time | comment)*>

<!ELEMENT psd-information (psd)*>
<!ATTLIST psd-information junos:style CDATA #IMPLIED>

<!ELEMENT rack (#PCDATA)>

<!ELEMENT re (slot | ok-led | fail-led | master-led)*>

<!ELEMENT re-name (#PCDATA)>

<!ELEMENT re-panel (re)*>

<!ELEMENT read-register (cb-slot | fchip-id | address | data)*>

<!ELEMENT reason (#PCDATA)>

<!ELEMENT recb-panel (ha-led | sfb-led | cfm-ok-fail-led | cfm-service-led)*>

<!ELEMENT red-alarm (#PCDATA)>
<!ATTLIST red-alarm junos:celsius CDATA #IMPLIED>

<!ELEMENT red-led EMPTY>

<!ELEMENT redundancy-priority (#PCDATA)>

<!ELEMENT redundancy-state (#PCDATA)>

<!ELEMENT redundancy-state-description (#PCDATA)>

<!ELEMENT reference-voltage (#PCDATA)>

<!ELEMENT reset-count (#PCDATA)>

<!ELEMENT revision (revision-name | revision-number)*>
```

<!ELEMENT revision-name (#PCDATA)>

<!ELEMENT revision-number (#PCDATA)>

<!ELEMENT route-engine (description | slot | physical-slot | mastership-state | mastership-priority | status | model | temperature | cpu-temperature | memory-dram-size | memory-buffer-utilization | control-plane-cpu-count | data-plane-cpu-count | cpu-user | cpu-real-time | cpu-background | cpu-system | cpu-interrupt | cpu-idle | serial-number | start-time | up-time | last-reboot-reason | load-average-one | load-average-five | load-average-fifteen | bios-version | bios-date | bios-id)*>

<!ELEMENT route-engine-information (route-engine)*>

<!ELEMENT routing-engine-software-version (#PCDATA)>

<!ELEMENT rpm (#PCDATA)>

<!ELEMENT scb (slot | state | failover-count | reset-count | activate-count | temperature | intake-temperature | exhaust-temperature | exhaust-a-temperature | exhaust-b-temperature | spp-temperature | spr-temperature | cpu-total | cpu-total-ukern | cpu-total-rt | cpu-interrupt | memory-dram-size | memory-sram-size | memory-rldram-size | memory-ddr-dram-size | memory-heap-utilization | memory-buffer-utilization | asic-name | asic-information | start-time | up-time | comment)*>

<!ELEMENT scb-information (scb-type | scb)*>
<!ATTLIST scb-information junos:style CDATA #IMPLIED>

<!ELEMENT scb-type (#PCDATA)>

<!ELEMENT scg (slot | amber-led | green-led | blue-led)*>

<!ELEMENT scg-panel (scg)*>

<!ELEMENT serial-number (#PCDATA)>

<!ELEMENT sfb-led (red-led | yellow-led | amber-led | blink-led)*>

<!ELEMENT sfm (slot | amber-led | green-led | blue-led)*>

<!ELEMENT sfm-panel (sfm)*>

<!ELEMENT sfp-vendor-name (#PCDATA)>

<!ELEMENT sfp-vendor-pno (#PCDATA)>

<!ELEMENT sgasic-number (#PCDATA)>

<!ELEMENT sgasic-port-link-state (#PCDATA)>

<!ELEMENT sgasic-port-number (#PCDATA)>

<!ELEMENT sib (slot | slot-type | state | sib-type | up-time | comment | ok-led | fail-led | active-led)*>

<!ELEMENT sib-f13-name (#PCDATA)>

<!ELEMENT sib-f13-slot (#PCDATA)>

```
<!ELEMENT sib-f2-name (#PCDATA)>

<!ELEMENT sib-f2-slot (#PCDATA)>

<!ELEMENT sib-fm-state (#PCDATA)>

<!ELEMENT sib-information (sib)*>
<!ATTLIST sib-information junos:style CDATA #IMPLIED>

<!ELEMENT sib-l-slot (#PCDATA)>

<!ELEMENT sib-name (#PCDATA)>

<!ELEMENT sib-panel (sib)*>

<!ELEMENT sib-slot (#PCDATA)>

<!ELEMENT sib-type (#PCDATA)>

<!ELEMENT sibl-link-state (#PCDATA)>

<!ELEMENT sibl-slot (#PCDATA)>

<!ELEMENT sibs-slot (#PCDATA)>

<!ELEMENT sibs2-slot (#PCDATA)>

<!ELEMENT signal-type (#PCDATA)>

<!ELEMENT slave-registers (slave-registers-name | slave-registers-value)*>

<!ELEMENT slave-registers-information (slave-registers-title | slave-registers)*>

<!ELEMENT slave-registers-name (#PCDATA)>

<!ELEMENT slave-registers-title (#PCDATA)>

<!ELEMENT slave-registers-value (#PCDATA)>

<!ELEMENT slave-revision (#PCDATA)>

<!ELEMENT slot (#PCDATA)>

<!ELEMENT slot-type (#PCDATA)>

<!ELEMENT source-name (#PCDATA)>

<!ELEMENT source-priority (#PCDATA)>

<!ELEMENT spmb (slot | state | cpu-total | cpu-interrupt | memory-heap-utilization |
memory-buffer-utilization | start-time | up-time)*>

<!ELEMENT spmb-information (spmb)*>
<!ATTLIST spmb-information junos:style CDATA #IMPLIED>

<!ELEMENT spp-temperature (#PCDATA)>
```

```
<!ELEMENT spr-temperature (#PCDATA)>

<!ELEMENT start-time (#PCDATA)>
<!ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT state (#PCDATA)>

<!ELEMENT status (#PCDATA)>

<!ELEMENT switching-mode (#PCDATA)>

<!ELEMENT synchronization-source-list (current-source | configured-source-list)*>

<!ELEMENT system-firmware (firmware-name | firmware-type | firmware-tag |
firmware-revision | firmware-revision-available | firmware-status |
system-sub-module-firmware-list)*>

<!ELEMENT system-firmware-compatibility (firmware-name | firmware-type | firmware-tag
| firmware-revision | firmware-revision-available | firmware-status | firmware-action |
system-sub-module-firmware-compatibility-list)*>

<!ELEMENT system-firmware-compatibility-information (firmware-version-mismatch |
system-firmware-compatibility)*>

<!ELEMENT system-firmware-information (system-firmware)*>

<!ELEMENT system-sub-module-firmware (firmware-name | firmware-type | firmware-tag |
firmware-revision | firmware-revision-available | firmware-status)*>

<!ELEMENT system-sub-module-firmware-compatibility (firmware-name | firmware-type |
firmware-tag | firmware-revision | firmware-revision-available | firmware-status |
firmware-action)*>

<!ELEMENT system-sub-module-firmware-compatibility-list
(system-sub-module-firmware-compatibility)*>

<!ELEMENT system-sub-module-firmware-list (system-sub-module-firmware)*>

<!ELEMENT telemetries-index (#PCDATA)>

<!ELEMENT telemetries-information (telemetries-index | telemetries-timestamp |
telemetries-power | telemetries-voltage)*>

<!ELEMENT telemetries-power (#PCDATA)>

<!ELEMENT telemetries-timestamp (#PCDATA)>

<!ELEMENT telemetries-voltage (#PCDATA)>

<!ELEMENT temperature (#PCDATA)>
<!ATTLIST temperature junos:celsius CDATA #IMPLIED>
<!ATTLIST temperature junos:celsius CDATA #IMPLIED>

<!ELEMENT temperature-name (#PCDATA)>

<!ELEMENT temperature-reading (temperature-name | temperature)*>
```

```
<!ELEMENT temperature-threshold (name | fan-normal-speed | fan-high-speed |
yellow-alarm | bad-fan-yellow-alarm | red-alarm | bad-fan-red-alarm |
temperature-threshold-information-item)*>

<!ELEMENT temperature-threshold-information (temperature-threshold)*>

<!ELEMENT temperature-threshold-information-item (#PCDATA)>

<!ELEMENT transmit (#PCDATA)>

<!ELEMENT type (#PCDATA)>

<!ELEMENT up-time (#PCDATA)>
<!ATTLIST up-time junos:seconds CDATA #IMPLIED>

<!ELEMENT validation-interval (#PCDATA)>

<!ELEMENT vcoord (#PCDATA)>

<!ELEMENT vendor (#PCDATA)>

<!ELEMENT version (#PCDATA)>

<!ELEMENT voltage (reference-voltage | actual-voltage)*>

<!ELEMENT voltage-title (#PCDATA)>

<!ELEMENT wavelength (#PCDATA)>

<!ELEMENT write-register (cb-slot | fchip-id | address | data)*>

<!ELEMENT yellow-alarm (#PCDATA)>
<!ATTLIST yellow-alarm junos:celsius CDATA #IMPLIED>

<!ELEMENT yellow-led EMPTY>
```

Chapter 16

DTD for Class-of-Service Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-cos.dtd, which lists the JUNOS XML tags that contain class-of-service information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-cos. To review reference pages for the tags, see "Summary of Class-of-Service Response Tags" on page 698.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-cos.dtd –>

<!ELEMENT adaptive-shaper (adaptive-shaper-name | table-index | trigger-item)*>

<!ELEMENT adaptive-shaper-name (#PCDATA)>

<!ELEMENT adaptive-shaping-rate (#PCDATA)>

<!ELEMENT adjusting-application-name (#PCDATA)>

<!ELEMENT adjustment-type (#PCDATA)>

<!ELEMENT adjustment-value (#PCDATA)>

<!ELEMENT alias-map (alias-map-item)*>

<!ELEMENT alias-map-item (code-point-bits | code-point-alias)*>

<!ELEMENT burst-size (#PCDATA)>

<!ELEMENT cell-overhead (#PCDATA)>

<!ELEMENT channel (virtual-channel-name | scheduler-map-name |
channel-shaping-rate)*>

<!ELEMENT channel-shaping-rate (#PCDATA)>

<!ELEMENT chassis-scheduler-map-index (#PCDATA)>

<!ELEMENT chassis-scheduler-map-name (#PCDATA)>

<!ELEMENT classifier (classifier-name | code-point-type | table-index | classifier-map)*>

<!ELEMENT classifier-inet-index (#PCDATA)>
```

<!ELEMENT classifier-inet-name (#PCDATA)>

<!ELEMENT classifier-inet-type (#PCDATA)>

<!ELEMENT classifier-map (classifier-map-item)*>

<!ELEMENT classifier-map-item (code-point | fc-name | loss-priority)*>

<!ELEMENT classifier-name (#PCDATA)>

<!ELEMENT classifier-table (table-index | number-of-entries | table-type | classifier-table-entry)*>

<!ELEMENT classifier-table-entry (table-index | code-point | fc-queue-number | loss-priority)*>

<!ELEMENT classifier-table-map (table-index | table-type | logical-interface | logical-interface-index)*>

<!ELEMENT cls-md-map (classifier-inet-name | classifier-inet-type | classifier-inet-index)*>

<!ELEMENT code-point (#PCDATA)>

<!ELEMENT code-point-alias (#PCDATA)>

<!ELEMENT code-point-bits (#PCDATA)>

<!ELEMENT code-point-map (code-point-type | alias-map)*>

<!ELEMENT code-point-type (#PCDATA)>

<!ELEMENT configured-shaping-rate (#PCDATA)>

<!ELEMENT cos-adaptive-shaper-information (adaptive-shaper)*>

<!ELEMENT cos-classifier-information (classifier)*>

<!ELEMENT cos-classifier-table-information (classifier-table)*>

<!ELEMENT cos-classifier-table-map-information (classifier-table-map)*>

<!ELEMENT cos-code-point-map-information (code-point-map)*>

<!ELEMENT cos-drop-profile-information (drop-profile)*>

<!ELEMENT cos-fabric-scheduler-map-information (fabric-scheduler-map)*>

<!ELEMENT cos-fabric-scheduler-map-table-information (fabric-scheduler-map-table)*>

<!ELEMENT cos-forwarding-class-information (fc-map)*>

<!ELEMENT cos-forwarding-class-map-information (fc-map)*>

<!ELEMENT cos-forwarding-class-map-interface-table-information (forwarding-class-queue-table-map)*>

```
<!ELEMENT cos-forwarding-class-map-table-information
(forwarding-class-queue-table)*>

<!ELEMENT cos-fragmentation-map-information (fragmentation-map)*>

<!ELEMENT cos-information (cos-forwarding-class-information |
cos-forwarding-class-map-information | cos-classifier-information |
cos-loss-priority-map-information | cos-drop-profile-information | cos-rewrite-information |
cos-code-point-map-information | cos-fragmentation-map-information |
cos-translation-table-map-information | cos-multi-destination-information)*>

<!ELEMENT cos-interface-information (interface-map)*>

<!ELEMENT cos-interface-set-information (interface-set-map)*>

<!ELEMENT cos-l2tp-session-information (l2tp-session-map)*>

<!ELEMENT cos-loss-priority-map-information (loss-priority-map)*>

<!ELEMENT cos-loss-priority-map-table-binding-information
(loss-priority-map-table-binding)*>

<!ELEMENT cos-loss-priority-map-table-information (loss-priority-map-table)*>

<!ELEMENT cos-multi-destination-information (sm-md-map | fc-md-map | cls-md-map)*>

<!ELEMENT cos-policer-table-map-information (policer-table-map)*>

<!ELEMENT cos-red-information (red)*>

<!ELEMENT cos-rewrite-information (rewrite)*>

<!ELEMENT cos-rewrite-table-information (rewrite-table)*>

<!ELEMENT cos-rewrite-table-map-information (rewrite-table-map)*>

<!ELEMENT cos-routing-instance-information (routing-instance-map)*>

<!ELEMENT cos-scheduler-map-information (scheduler-map)*>

<!ELEMENT cos-scheduler-map-table-information (policy)*>

<!ELEMENT cos-shaper-table-map-information (shaper-table-map)*>

<!ELEMENT cos-table-information (cos-classifier-table-information |
cos-classifier-table-map-information | cos-loss-priority-map-table-information |
cos-loss-priority-map-table-binding-information | cos-scheduler-map-table-information |
cos-red-information | cos-rewrite-table-information | cos-rewrite-table-map-information |
cos-policer-table-map-information | cos-shaper-table-map-information)*>

<!ELEMENT cos-traffic-control-profile-information (traffic-control-profile)*>

<!ELEMENT cos-translation-table-information (translation-table)*>

<!ELEMENT cos-translation-table-map-information (translation-table)*>

<!ELEMENT cos-translation-table-mapping-information (translation-table-mapping)*>
```

<!ELEMENT cos-virtual-channel-group-information (virtual-channel-group)*>

<!ELEMENT cos-virtual-channel-information (virtual-channel)*>

<!ELEMENT delay-buffer-rate (#PCDATA)>

<!ELEMENT dest-fpc-index (#PCDATA)>

<!ELEMENT drop-bps-high (#PCDATA)>

<!ELEMENT drop-bps-low (#PCDATA)>

<!ELEMENT drop-bytes-high (#PCDATA)>

<!ELEMENT drop-bytes-low (#PCDATA)>

<!ELEMENT drop-pkts-high (#PCDATA)>

<!ELEMENT drop-pkts-low (#PCDATA)>

<!ELEMENT drop-pps-high (#PCDATA)>

<!ELEMENT drop-pps-low (#PCDATA)>

<!ELEMENT drop-profile (profile-name | profile-type | table-index | profile-map)*>

<!ELEMENT drop-statistics (drop-pkts-high | drop-pkts-low | drop-bytes-high | drop-bytes-low | drop-pps-high | drop-pps-low | drop-bps-high | drop-bps-low)*>

<!ELEMENT encapsulation-overhead (#PCDATA)>

<!ELEMENT excess-rate (#PCDATA)>

<!ELEMENT fabric-queue-information (fpc-queue-information)*>

<!ELEMENT fabric-scheduler (fabric-scheduler-name | fabric-scheduler-index | fabric-scheduler-drop-profile-ln-index | fabric-scheduler-drop-profile-ln | fabric-scheduler-drop-profile-lt-index | fabric-scheduler-drop-profile-lt | fabric-scheduler-drop-profile-hn-index | fabric-scheduler-drop-profile-hn | fabric-scheduler-drop-profile-ht-index | fabric-scheduler-drop-profile-ht)*>

<!ELEMENT fabric-scheduler-drop-profile-hn (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-hn-index (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-ht (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-ht-index (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-ln (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-ln-index (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-lt (#PCDATA)>

<!ELEMENT fabric-scheduler-drop-profile-lt-index (#PCDATA)>

```
<!ELEMENT fabric-scheduler-index (#PCDATA)>

<!ELEMENT fabric-scheduler-map (fabric-scheduler-priority | fabric-scheduler)*>

<!ELEMENT fabric-scheduler-map-table (fabric-scheduler-priority |
fabric-scheduler-queues | fabric-scheduler-table)*>

<!ELEMENT fabric-scheduler-name (#PCDATA)>

<!ELEMENT fabric-scheduler-priority (#PCDATA)>

<!ELEMENT fabric-scheduler-queues (#PCDATA)>

<!ELEMENT fabric-scheduler-table (fabric-scheduler-index |
fabric-scheduler-drop-profile-hn-index | fabric-scheduler-drop-profile-ln-index |
fabric-scheduler-drop-profile-ht-index | fabric-scheduler-drop-profile-lt-index)*>

<!ELEMENT fc-map (fc-map-item)*>
<!ATTLIST fc-map junos:style CDATA #IMPLIED>

<!ELEMENT fc-map-item (fc-name | fc-number | fc-queue-number | fc-rqueue-number |
fc-priority | fc-policing-priority)*>

<!ELEMENT fc-md-map (fc-name | fc-queue-number)*>

<!ELEMENT fc-name (#PCDATA)>

<!ELEMENT fc-number (#PCDATA)>

<!ELEMENT fc-policing-priority (#PCDATA)>

<!ELEMENT fc-priority (#PCDATA)>

<!ELEMENT fc-queue-number (#PCDATA)>

<!ELEMENT fc-rqueue-number (#PCDATA)>

<!ELEMENT fill-level (#PCDATA)>

<!ELEMENT forwarding-class-queue-table (table-index | number-of-entries |
forwarding-class-queue-table-entry)*>

<!ELEMENT forwarding-class-queue-table-entry (fc-number | fc-queue-number |
fc-rqueue-number)*>

<!ELEMENT forwarding-class-queue-table-map (logical-interface | logical-interface-index |
table-index)*>

<!ELEMENT fpc-queue-information (dest-fpc-index | src-fpc-index | total-statistics |
tx-statistics | drop-statistics)*>

<!ELEMENT fragment-map (fc-name | fragment-threshold | no-fragmentation |
fragment-multilink-class)*>
<!ATTLIST fragment-map junos:style CDATA #IMPLIED>

<!ELEMENT fragment-multilink-class (#PCDATA)>
```

<!ELEMENT fragment-threshold (#PCDATA)>

<!ELEMENT fragmentation-map (fragmentation-map-name | fragmentation-map-index | fragment-map)*>

<!ELEMENT fragmentation-map-index (#PCDATA)>

<!ELEMENT fragmentation-map-name (#PCDATA)>

<!ELEMENT from-code-point (#PCDATA)>

<!ELEMENT guaranteed-rate (#PCDATA)>

<!ELEMENT high-drop-profile-identifier (#PCDATA)>

<!ELEMENT i-logical-index (#PCDATA)>

<!ELEMENT i-logical-map (i-logical-name | i-logical-index | i-logical-objects | policer-bandwidth | policer-burst | shaper-bandwidth | shaper-burst | shaping-rate | burst-size | input-shaping-rate | input-burst-size | adjusting-application-name | adjustment-type | configured-shaping-rate | adjustment-value)*>

<!ELEMENT i-logical-name (#PCDATA)>

<!ELEMENT i-logical-object-index (#PCDATA)>

<!ELEMENT i-logical-object-name (#PCDATA)>

<!ELEMENT i-logical-object-subtype (#PCDATA)>

<!ELEMENT i-logical-object-type (#PCDATA)>

<!ELEMENT i-logical-objects (i-logical-object-type | i-logical-object-name | i-logical-object-subtype | i-logical-object-index)*>

<!ELEMENT input-burst-size (#PCDATA)>

<!ELEMENT input-scheduler-map-index (#PCDATA)>

<!ELEMENT input-scheduler-map-name (#PCDATA)>

<!ELEMENT input-shaping-rate (#PCDATA)>

<!ELEMENT input-traffic-control-profile-index (#PCDATA)>

<!ELEMENT input-traffic-control-profile-name (#PCDATA)>

<!ELEMENT instance-reference-count (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT interface-index (#PCDATA)>

<!ELEMENT interface-input-shaping-rate (#PCDATA)>

```
<!ELEMENT interface-map (interface-name | interface-index |
interface-queues-supported | interface-queues-in-use | interface-shaping-rate |
scheduler-map-name | scheduler-map-index | interface-input-shaping-rate |
input-scheduler-map-name | input-scheduler-map-index | chassis-scheduler-map-name |
chassis-scheduler-map-index | input-traffic-control-profile-name |
input-traffic-control-profile-index | output-traffic-control-profile-name |
output-traffic-control-profile-index | i-logical-map)*>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-queues-in-use (#PCDATA)>

<!ELEMENT interface-queues-supported (#PCDATA)>

<!ELEMENT interface-set-index (#PCDATA)>

<!ELEMENT interface-set-map (interface-set-name | interface-set-index | interface-name
| interface-index | interface-queues-supported | interface-queues-in-use |
output-traffic-control-profile-name | output-traffic-control-profile-index |
input-traffic-control-profile-name | input-traffic-control-profile-index |
adjusting-application-name | adjustment-type | configured-shaping-rate |
adjustment-value)*>

<!ELEMENT interface-set-name (#PCDATA)>

<!ELEMENT interface-shaping-rate (#PCDATA)>

<!ELEMENT l2tp-session-index (#PCDATA)>

<!ELEMENT l2tp-session-map (interface-name | interface-index |
interface-queues-supported | interface-queues-in-use | l2tp-session-username |
l2tp-session-index | traffic-control-profile-name | traffic-control-profile-index |
scheduler-map-name | scheduler-map-index | shaping-rate | guaranteed-rate |
delay-buffer-rate | encapsulation-overhead | cell-overhead)*>

<!ELEMENT l2tp-session-username (#PCDATA)>

<!ELEMENT logical-interface (#PCDATA)>

<!ELEMENT logical-interface-index (#PCDATA)>

<!ELEMENT loss-priority (#PCDATA)>

<!ELEMENT loss-priority-map (loss-priority-map-name | code-point-type | table-index |
loss-priority-map-table)*>

<!ELEMENT loss-priority-map-item (code-point | loss-priority)*>

<!ELEMENT loss-priority-map-name (#PCDATA)>

<!ELEMENT loss-priority-map-table (loss-priority-map-item | table-index |
number-of-entries | table-type | loss-priority-map-table-entry)*>

<!ELEMENT loss-priority-map-table-binding (table-index | table-type | logical-interface |
logical-interface-index)*>

<!ELEMENT loss-priority-map-table-entry (table-index | code-point | loss-priority)*>
```

<!ELEMENT low-drop-profile-identifier (#PCDATA)>

<!ELEMENT medium-drop-profile-identifier (#PCDATA)>

<!ELEMENT medium-high-drop-profile-identifier (#PCDATA)>

<!ELEMENT medium-low-drop-profile-identifier (#PCDATA)>

<!ELEMENT no-fragmentation EMPTY>

<!ELEMENT number-of-entries (#PCDATA)>

<!ELEMENT output-traffic-control-profile-index (#PCDATA)>

<!ELEMENT output-traffic-control-profile-name (#PCDATA)>

<!ELEMENT p-interface (#PCDATA)>

<!ELEMENT p-interface-index (#PCDATA)>

<!ELEMENT policer-bandwidth (#PCDATA)>

<!ELEMENT policer-burst (#PCDATA)>

<!ELEMENT policer-table-map (p-interface | p-interface-index | policer-bandwidth | policer-burst)*>

<!ELEMENT policy (interface | interface-index | policy-index | policy-type | policy-number-of-queues | traffic-control-profile-name | traffic-control-profile-index | policy-entry)*>

<!ELEMENT policy-buffer-size-percentage (#PCDATA)>

<!ELEMENT policy-buffer-size-remainder (#PCDATA)>

<!ELEMENT policy-buffer-size-temporal (#PCDATA)>

<!ELEMENT policy-entry (table-index | policy-entry-identifier | fc-number | fc-queue-number | policy-transmit-rate | policy-transmit-rate-percentage | policy-transmit-rate-remainder | policy-buffer-size-temporal | policy-buffer-size-percentage | policy-buffer-size-remainder | policy-scheduling-priority | policy-excess-priority | policy-excess-rate-proportional | policy-excess-rate-percentage | policy-shaping-rate | policy-shaping-rate-percentage | policy-packet-loss-profile | policy-exact)*>

<!ELEMENT policy-entry-identifier (#PCDATA)>

<!ELEMENT policy-exact (#PCDATA)>

<!ELEMENT policy-excess-priority (#PCDATA)>

<!ELEMENT policy-excess-rate-percentage (#PCDATA)>

<!ELEMENT policy-excess-rate-proportional (#PCDATA)>

<!ELEMENT policy-index (#PCDATA)>

```
<!ELEMENT policy-number-of-queues (#PCDATA)>

<!ELEMENT policy-packet-loss-profile (high-drop-profile-identifier |
medium-drop-profile-identifier | low-drop-profile-identifier |
medium-high-drop-profile-identifier | medium-low-drop-profile-identifier |
tcp-high-drop-profile-identifier | tcp-low-drop-profile-identifier)*>

<!ELEMENT policy-scheduling-priority (#PCDATA)>

<!ELEMENT policy-shaping-rate (#PCDATA)>

<!ELEMENT policy-shaping-rate-percentage (#PCDATA)>

<!ELEMENT policy-transmit-rate (#PCDATA)>

<!ELEMENT policy-transmit-rate-percentage (#PCDATA)>

<!ELEMENT policy-transmit-rate-remainder (#PCDATA)>

<!ELEMENT policy-type (#PCDATA)>

<!ELEMENT probability (#PCDATA)>

<!ELEMENT profile-map (profile-map-item)*>

<!ELEMENT profile-map-item (fill-level | probability)*>
<!ATTLIST profile-map-item junos:style CDATA #IMPLIED>

<!ELEMENT profile-name (#PCDATA)>

<!ELEMENT profile-type (#PCDATA)>

<!ELEMENT red (red-drop-profile-identifier | number-of-entries | red-entry)*>

<!ELEMENT red-drop-probability (#PCDATA)>

<!ELEMENT red-drop-profile-identifier (#PCDATA)>

<!ELEMENT red-entry (red-entry-index | red-fullness | red-drop-probability)*>
<!ATTLIST red-entry junos:style CDATA #IMPLIED>

<!ELEMENT red-entry-index (#PCDATA)>

<!ELEMENT red-fullness (#PCDATA)>

<!ELEMENT rewrite (rewrite-name | code-point-type | table-index | rewrite-map)*>

<!ELEMENT rewrite-high-codepoint (#PCDATA)>

<!ELEMENT rewrite-high-enable-state (#PCDATA)>

<!ELEMENT rewrite-low-codepoint (#PCDATA)>

<!ELEMENT rewrite-low-enable-state (#PCDATA)>

<!ELEMENT rewrite-map (rewrite-map-item)*>
```

```
<!ELEMENT rewrite-map-item (code-point | fc-name | loss-priority)*>

<!ELEMENT rewrite-medium-codepoint (#PCDATA)>

<!ELEMENT rewrite-medium-enable-state (#PCDATA)>

<!ELEMENT rewrite-medium-high-codepoint (#PCDATA)>

<!ELEMENT rewrite-medium-high-enable-state (#PCDATA)>

<!ELEMENT rewrite-medium-low-codepoint (#PCDATA)>

<!ELEMENT rewrite-medium-low-enable-state (#PCDATA)>

<!ELEMENT rewrite-name (#PCDATA)>

<!ELEMENT rewrite-table (table-index | number-of-entries | table-type |
rewrite-table-entry)*>

<!ELEMENT rewrite-table-entry (fc-queue-number | rewrite-low-codepoint |
rewrite-low-enable-state | rewrite-high-codepoint | rewrite-high-enable-state |
rewrite-medium-codepoint | rewrite-medium-enable-state | rewrite-medium-low-codepoint
| rewrite-medium-low-enable-state | rewrite-medium-high-codepoint |
rewrite-medium-high-enable-state)*>
<!ATTLIST rewrite-table-entry junos:style CDATA #IMPLIED>

<!ELEMENT rewrite-table-map (table-index | table-type | logical-interface |
logical-interface-index)*>

<!ELEMENT routing-instance-map (routing-instance-name | i-logical-map)*>

<!ELEMENT routing-instance-name (#PCDATA)>

<!ELEMENT s-interface (#PCDATA)>

<!ELEMENT s-interface-index (#PCDATA)>

<!ELEMENT scheduler (fc-name | scheduler-name | scheduler-index | scheduler-tx-rate |
scheduler-tx-limit | scheduler-buffer-size | scheduler-priority | scheduler-excess-priority |
scheduler-shaping-rate | scheduler-excess-rate | scheduler-drop-profile-ln-index |
scheduler-drop-profile-ln | scheduler-drop-profile-lt-index | scheduler-drop-profile-lt |
scheduler-drop-profile-hn-index | scheduler-drop-profile-hn |
scheduler-drop-profile-ht-index | scheduler-drop-profile-ht | scheduler-drop-profile-la-index
| scheduler-drop-profile-la | scheduler-drop-profile-mla-index | scheduler-drop-profile-mla |
scheduler-drop-profile-mha-index | scheduler-drop-profile-mha |
scheduler-drop-profile-ma-index | scheduler-drop-profile-ma |
scheduler-drop-profile-ha-index | scheduler-drop-profile-ha)*>

<!ELEMENT scheduler-buffer-size (#PCDATA)>

<!ELEMENT scheduler-drop-profile-ha (#PCDATA)>

<!ELEMENT scheduler-drop-profile-ha-index (#PCDATA)>

<!ELEMENT scheduler-drop-profile-hn (#PCDATA)>
```

```
<!ELEMENT scheduler-drop-profile-hn-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-ht (#PCDATA)>
<!ELEMENT scheduler-drop-profile-ht-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-la (#PCDATA)>
<!ELEMENT scheduler-drop-profile-la-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-ln (#PCDATA)>
<!ELEMENT scheduler-drop-profile-ln-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-lt (#PCDATA)>
<!ELEMENT scheduler-drop-profile-lt-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-ma (#PCDATA)>
<!ELEMENT scheduler-drop-profile-ma-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-mha (#PCDATA)>
<!ELEMENT scheduler-drop-profile-mha-index (#PCDATA)>
<!ELEMENT scheduler-drop-profile-mla (#PCDATA)>
<!ELEMENT scheduler-drop-profile-mla-index (#PCDATA)>
<!ELEMENT scheduler-excess-priority (#PCDATA)>
<!ELEMENT scheduler-excess-rate (#PCDATA)>
<!ELEMENT scheduler-index (#PCDATA)>
<!ELEMENT scheduler-map (scheduler-map-name | scheduler-map-index | scheduler)*>
<!ELEMENT scheduler-map-index (#PCDATA)>
<!ELEMENT scheduler-map-name (#PCDATA)>
<!ELEMENT scheduler-name (#PCDATA)>
<!ELEMENT scheduler-priority (#PCDATA)>
<!ELEMENT scheduler-shaping-rate (#PCDATA)>
<!ELEMENT scheduler-tx-limit (#PCDATA)>
<!ELEMENT scheduler-tx-rate (#PCDATA)>
<!ELEMENT shaper-bandwidth (#PCDATA)>
<!ELEMENT shaper-burst (#PCDATA)>
```

<!ELEMENT shaper-table-map (s-interface | s-interface-index | shaper-bandwidth | shaper-burst)*>

<!ELEMENT shaping-rate (#PCDATA)>

<!ELEMENT sm-md-map (scheduler-map-name | scheduler-map-index)*>

<!ELEMENT src-fpc-index (#PCDATA)>

<!ELEMENT table-index (#PCDATA)>

<!ELEMENT table-type (#PCDATA)>

<!ELEMENT tcp-high-drop-profile-identifier (#PCDATA)>

<!ELEMENT tcp-low-drop-profile-identifier (#PCDATA)>

<!ELEMENT to-code-point (#PCDATA)>

<!ELEMENT total-bps-high (#PCDATA)>

<!ELEMENT total-bps-low (#PCDATA)>

<!ELEMENT total-bytes-high (#PCDATA)>

<!ELEMENT total-bytes-low (#PCDATA)>

<!ELEMENT total-pkts-high (#PCDATA)>

<!ELEMENT total-pkts-low (#PCDATA)>

<!ELEMENT total-pps-high (#PCDATA)>

<!ELEMENT total-pps-low (#PCDATA)>

<!ELEMENT total-statistics (total-pkts-high | total-pkts-low | total-bytes-high | total-bytes-low | total-pps-high | total-pps-low | total-bps-high | total-bps-low)*>

<!ELEMENT traffic-control-profile (traffic-control-profile-name | scheduler-map-name | shaping-rate | traffic-control-profile-index | traffic-control-profile-instance | guaranteed-rate | delay-buffer-rate | excess-rate)*>

<!ELEMENT traffic-control-profile-index (#PCDATA)>

<!ELEMENT traffic-control-profile-instance (traffic-control-profile-instance-name | traffic-control-profile-instance-index | instance-reference-count)*>

<!ELEMENT traffic-control-profile-instance-index (#PCDATA)>

<!ELEMENT traffic-control-profile-instance-name (#PCDATA)>

<!ELEMENT traffic-control-profile-name (#PCDATA)>

<!ELEMENT translation-table (translation-table-name | translation-table-type | table-index | translation-table-map | number-of-entries | translation-table-entry)*>

<!ELEMENT translation-table-entry (table-index | from-code-point | to-code-point)*>

```
<!ELEMENT translation-table-map (translation-table-map-item)*>

<!ELEMENT translation-table-map-item (from-code-point | to-code-point)*>

<!ELEMENT translation-table-mapping (table-index | translation-table-type |
logical-interface | logical-interface-index)*>

<!ELEMENT translation-table-name (#PCDATA)>

<!ELEMENT translation-table-type (#PCDATA)>

<!ELEMENT trigger-item (trigger-type | adaptive-shaping-rate)*>

<!ELEMENT trigger-type (#PCDATA)>

<!ELEMENT tx-bps-high (#PCDATA)>

<!ELEMENT tx-bps-low (#PCDATA)>

<!ELEMENT tx-bytes-high (#PCDATA)>

<!ELEMENT tx-bytes-low (#PCDATA)>

<!ELEMENT tx-pkts-high (#PCDATA)>

<!ELEMENT tx-pkts-low (#PCDATA)>

<!ELEMENT tx-pps-high (#PCDATA)>

<!ELEMENT tx-pps-low (#PCDATA)>

<!ELEMENT tx-statistics (tx-pkts-high | tx-pkts-low | tx-bytes-high | tx-bytes-low |
tx-pps-high | tx-pps-low | tx-bps-high | tx-bps-low)*>

<!ELEMENT virtual-channel (virtual-channel-name | table-index)*>

<!ELEMENT virtual-channel-group (virtual-channel-group-name | table-index | channel)*>

<!ELEMENT virtual-channel-group-name (#PCDATA)>

<!ELEMENT virtual-channel-name (#PCDATA)>
```

Chapter 17

DTD for Database Replication Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-database-replication.dtd, which lists the JUNOS XML tags that contain database replication information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-database-replication. To review reference pages for the tags, see "Summary of Database Replication Response Tags" on page 750.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
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<!– junos-database-replication.dtd –>

<!ELEMENT database-replication-statistics-information (dropped-connections-total |
max-buffer-count | msg-received-bytes | msgs-received-total | msg-sent-bytes |
msgs-sent-total | queue-full-total | queue-max-size)*>

<!ELEMENT database-replication-summary-information (replication-graceful-restart-type
| replication-mastership-type | replication-connection-type | replication-database-type |
replication-queue-type)*>

<!ELEMENT dropped-connections-total (#PCDATA)>

<!ELEMENT max-buffer-count (#PCDATA)>

<!ELEMENT msg-received-bytes (#PCDATA)>

<!ELEMENT msg-sent-bytes (#PCDATA)>

<!ELEMENT msgs-received-total (#PCDATA)>

<!ELEMENT msgs-sent-total (#PCDATA)>

<!ELEMENT queue-full-total (#PCDATA)>

<!ELEMENT queue-max-size (#PCDATA)>

<!ELEMENT replication-connection-type (#PCDATA)>

<!ELEMENT replication-database-type (#PCDATA)>

<!ELEMENT replication-graceful-restart-type (#PCDATA)>
```

```
<!ELEMENT replication-mastership-type (#PCDATA)>

<!ELEMENT replication-queue-type (#PCDATA)>
```

Chapter 18

DTD for Data Link Switching Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dlswd.dtd, which lists the JUNOS XML tags that contain data link switching information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dlswd. To review reference pages for the tags, see "Summary of Data Link Switching Response Tags" on page 752.

```
<!– Copyright (c) 2000-2008, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-dlswd.dtd –>

<!ELEMENT advertise-interval (#PCDATA)>

<!ELEMENT advertise-timer (#PCDATA)>

<!ELEMENT bytes-received (#PCDATA)>

<!ELEMENT bytes-sent (#PCDATA)>

<!ELEMENT canureach-ex-received (#PCDATA)>

<!ELEMENT canureach-ex-sent (#PCDATA)>

<!ELEMENT circuit-id (#PCDATA)>

<!ELEMENT circuit-priority (#PCDATA)>

<!ELEMENT circuit-state (#PCDATA)>

<!ELEMENT circuit-uptime (#PCDATA)>
<!ATTLIST circuit-uptime junos:seconds CDATA #IMPLIED>

<!ELEMENT connection-idle-timeout (#PCDATA)>
<!ATTLIST connection-idle-timeout junos:seconds CDATA #IMPLIED>

<!ELEMENT control-packets-received (#PCDATA)>

<!ELEMENT control-packets-sent (#PCDATA)>

<!ELEMENT current-state-time (#PCDATA)>
<!ATTLIST current-state-time junos:seconds CDATA #IMPLIED>
```

```
<!ELEMENT destination-sna-interface (#PCDATA)>

<!ELEMENT dlsw-capabilities (peer-address | vendor-id | version-number |
initial-pacing-window-size | version-string | dlsw-capability-strings |
version-string-multi)*>

<!ELEMENT dlsw-capabilities-list (dlsw-capabilities)*>

<!ELEMENT dlsw-capability-strings (#PCDATA)>

<!ELEMENT dlsw-circuit (local-address | lsap | remote-address | dsap | circuit-state |
peer-address | circuit-id | circuit-uptime | current-state-time | max-btu-size |
circuit-priority | dlsw-circuit-statistics)*>
<!ATTLIST dlsw-circuit junos:style CDATA #IMPLIED>

<!ELEMENT dlsw-circuit-list (dlsw-circuit)*>

<!ELEMENT dlsw-circuit-statistics (iframes-received | iframes-sent | ibytes-received |
ibytes-sent | iframes-rejected | ibytes-rejected | iframes-retransmitted |
ibytes-retransmitted | reject-sent | reject-received | xid-sent | xid-received)*>

<!ELEMENT dlsw-peer (peer-address | peer-state | peer-circuits | local-address |
peer-uptime | initial-receive-pacing | connection-idle-timeout | dlsw-peer-statistics |
tos-value | destination-sna-interface | peer-cost | peer-circuit-weight | load-balance)*>
<!ATTLIST dlsw-peer junos:style CDATA #IMPLIED>

<!ELEMENT dlsw-peer-interface (#PCDATA)>

<!ELEMENT dlsw-peer-list (dlsw-peer)*>

<!ELEMENT dlsw-peer-statistics (packets-received | packets-sent | bytes-received |
bytes-sent | control-packets-received | control-packets-sent | canureach-ex-received |
canureach-ex-sent | icanreach-ex-received | icanreach-ex-sent)*>

<!ELEMENT dlsw-reachability (mac-index | mac-address | mac-location |
remote-dlsw-address | dlsw-peer-interface)*>

<!ELEMENT dlsw-reachability-list (dlsw-reachability)*>

<!ELEMENT dlsw-version (#PCDATA)>

<!ELEMENT dsap (#PCDATA)>

<!ELEMENT group (#PCDATA)>

<!ELEMENT group-configured-priority (#PCDATA)>

<!ELEMENT group-run-priority (#PCDATA)>

<!ELEMENT ibytes-received (#PCDATA)>

<!ELEMENT ibytes-rejected (#PCDATA)>

<!ELEMENT ibytes-retransmitted (#PCDATA)>

<!ELEMENT ibytes-sent (#PCDATA)>
```

```
<!ELEMENT icanreach-ex-received (#PCDATA)>

<!ELEMENT icanreach-ex-sent (#PCDATA)>

<!ELEMENT ifl-index (#PCDATA)>

<!ELEMENT iframes-received (#PCDATA)>

<!ELEMENT iframes-rejected (#PCDATA)>

<!ELEMENT iframes-retransmitted (#PCDATA)>

<!ELEMENT iframes-sent (#PCDATA)>

<!ELEMENT initial-pacing-window-size (#PCDATA)>

<!ELEMENT initial-receive-pacing (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT interface-ads-received (#PCDATA)>

<!ELEMENT interface-ads-sent (#PCDATA)>

<!ELEMENT interface-bad-checksum-received (#PCDATA)>

<!ELEMENT interface-bad-pdu-type-received (#PCDATA)>

<!ELEMENT interface-bad-ttl-value-received (#PCDATA)>

<!ELEMENT interface-bad-version-received (#PCDATA)>

<!ELEMENT interface-state (#PCDATA)>

<!ELEMENT llc2 (interface | track-peer | track-destination | track-interface | unit | group |
interface-state | state | track-interface-state | track-interface-cost | track-peer-state |
track-peer-cost | track-destination-state | track-destination-cost |
group-configured-priority | group-run-priority | local-mac | remote-mac | ifl-index |
advertise-interval | advertise-timer | preempt | master-router-uptime | tracking |
interface-ads-sent | interface-ads-received | interface-bad-ttl-value-received |
interface-bad-version-received | interface-bad-pdu-type-received |
interface-bad-checksum-received)*>

<!ELEMENT llc2-redundancy (llc2)*>
<!ATTLIST llc2-redundancy junos:style CDATA #IMPLIED>

<!ELEMENT llc2-redundancy-interface-statistics (llc2)*>

<!ELEMENT llc2-redundancy-interface-statistics-list
(llc2-redundancy-interface-statistics)*>

<!ELEMENT llc2-redundancy-list (llc2-redundancy)*>

<!ELEMENT llc2-redundancy-mac-translation (llc2)*>
<!ATTLIST llc2-redundancy-mac-translation junos:style CDATA #IMPLIED>

<!ELEMENT llc2-redundancy-mac-translation-list (llc2-redundancy-mac-translation)*>
```

```
<!ELEMENT llc2-redundancy-track-dlsw-destination (llc2)*>
<!ATTLIST llc2-redundancy-track-dlsw-destination junos:style CDATA #IMPLIED>

<!ELEMENT llc2-redundancy-track-dlsw-destination-list
(llc2-redundancy-track-dlsw-destination)*>

<!ELEMENT llc2-redundancy-track-dlsw-peer (llc2)*>
<!ATTLIST llc2-redundancy-track-dlsw-peer junos:style CDATA #IMPLIED>

<!ELEMENT llc2-redundancy-track-dlsw-peer-list (llc2-redundancy-track-dlsw-peer)*>

<!ELEMENT llc2-redundancy-track-interface (llc2)*>
<!ATTLIST llc2-redundancy-track-interface junos:style CDATA #IMPLIED>

<!ELEMENT llc2-redundancy-track-interface-list (llc2-redundancy-track-interface)*>

<!ELEMENT load-balance (#PCDATA)>

<!ELEMENT local-address (#PCDATA)>

<!ELEMENT local-mac (#PCDATA)>

<!ELEMENT lsap (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT mac-index (#PCDATA)>

<!ELEMENT mac-location (#PCDATA)>

<!ELEMENT master-router-uptime (#PCDATA)>

<!ELEMENT max-btu-size (#PCDATA)>

<!ELEMENT packets-received (#PCDATA)>

<!ELEMENT packets-sent (#PCDATA)>

<!ELEMENT peer-address (#PCDATA)>

<!ELEMENT peer-circuit-weight (#PCDATA)>

<!ELEMENT peer-circuits (#PCDATA)>

<!ELEMENT peer-cost (#PCDATA)>

<!ELEMENT peer-state (#PCDATA)>

<!ELEMENT peer-uptime (#PCDATA)>
<!ATTLIST peer-uptime junos:seconds CDATA #IMPLIED>

<!ELEMENT preempt (#PCDATA)>

<!ELEMENT reject-received (#PCDATA)>

<!ELEMENT reject-sent (#PCDATA)>
```

```
<!ELEMENT remote-address (#PCDATA)>
<!ELEMENT remote-dlsw-address (#PCDATA)>
<!ELEMENT remote-mac (#PCDATA)>
<!ELEMENT state (#PCDATA)>
<!ELEMENT tos-value (#PCDATA)>
<!ELEMENT track-destination (#PCDATA)>
<!ELEMENT track-destination-cost (#PCDATA)>
<!ELEMENT track-destination-state (#PCDATA)>
<!ELEMENT track-interface (#PCDATA)>
<!ELEMENT track-interface-cost (#PCDATA)>
<!ELEMENT track-interface-state (#PCDATA)>
<!ELEMENT track-peer (#PCDATA)>
<!ELEMENT track-peer-cost (#PCDATA)>
<!ELEMENT track-peer-state (#PCDATA)>
<!ELEMENT tracking (#PCDATA)>
<!ELEMENT unit (#PCDATA)>
<!ELEMENT vendor-id (#PCDATA)>
<!ELEMENT version-number (#PCDATA)>
<!ELEMENT version-string (#PCDATA)>
<!ELEMENT version-string-multi (#PCDATA)>
<!ELEMENT xid-received (#PCDATA)>
<!ELEMENT xid-sent (#PCDATA)>
```

Chapter 19

DTD for DHCP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dhcp.dtd, which lists the JUNOS XML tags that contain Dynamic Host Configuration Protocol (DHCP) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dhcp. To review reference pages for the tags, see "Summary of DHCP Response Tags" on page 764.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-dhcp.dtd –>

<!ELEMENT active-lease-count (#PCDATA)>

<!ELEMENT address-count (#PCDATA)>

<!ELEMENT address-pool-excluded-address (#PCDATA)>

<!ELEMENT address-pool-high-address (#PCDATA)>

<!ELEMENT address-pool-low-address (#PCDATA)>

<!ELEMENT address-pool-name (#PCDATA)>

<!ELEMENT allocated-address (#PCDATA)>

<!ELEMENT assigned-lease-count (#PCDATA)>

<!ELEMENT bootp-dropped-packets (#PCDATA)>

<!ELEMENT bootp-dropped-packets-badaddr (#PCDATA)>

<!ELEMENT bootp-dropped-packets-badread (#PCDATA)>

<!ELEMENT bootp-dropped-packets-badsend (#PCDATA)>

<!ELEMENT bootp-dropped-packets-nointerface (#PCDATA)>

<!ELEMENT bootp-dropped-packets-nolocaladdr (#PCDATA)>

<!ELEMENT bootp-dropped-packets-noroute (#PCDATA)>

<!ELEMENT bootp-dropped-packets-nortinst (#PCDATA)>

<!ELEMENT bootp-forwarded-packets (#PCDATA)>
```

```
<!ELEMENT bootp-lease-length (#PCDATA)>

<!ELEMENT bootp-received-packets (#PCDATA)>

<!ELEMENT bootp-relay-address (#PCDATA)>

<!ELEMENT client-identifier (hex-data | hex-data-line | printable-data-line)*>

<!ELEMENT conflict-address (#PCDATA)>

<!ELEMENT conflict-count (#PCDATA)>

<!ELEMENT default-lease-time (#PCDATA)>

<!ELEMENT detection-method (#PCDATA)>

<!ELEMENT detection-time (#PCDATA)>

<!ELEMENT dhcp-binding (allocated-address | mac-address | dhcp-lease-binding-type |
lease-end-time | lease-state | dhcp-option-table | address-pool-name | interface-name |
bootp-relay-address | dhcp-lease-information | client-identifier)*>

<!ELEMENT dhcp-binding-information (dhcp-binding)*>
<!ATTLIST dhcp-binding-information junos:style CDATA #IMPLIED>

<!ELEMENT dhcp-conflict (detection-time | detection-method | conflict-address)*>

<!ELEMENT dhcp-conflict-information (dhcp-conflict)*>

<!ELEMENT dhcp-global-information (dhcp-lease-time-information | dhcp-option-table |
bootp-lease-length)*>

<!ELEMENT dhcp-lease-binding-type (#PCDATA)>

<!ELEMENT dhcp-lease-information (dhcp-lease-type | lease-start-time | lease-end-time |
lease-state)*>

<!ELEMENT dhcp-lease-time-information (default-lease-time | minimum-lease-time |
maximum-lease-time)*>

<!ELEMENT dhcp-lease-type (#PCDATA)>

<!ELEMENT dhcp-option (dhcp-option-code | dhcp-option-name | dhcp-option-type |
dhcp-option-value)*>

<!ELEMENT dhcp-option-code (#PCDATA)>

<!ELEMENT dhcp-option-name (#PCDATA)>

<!ELEMENT dhcp-option-table (dhcp-option)*>

<!ELEMENT dhcp-option-type (#PCDATA)>

<!ELEMENT dhcp-option-value (#PCDATA)>
```

```
<!ELEMENT dhcp-pool (address-pool-name | address-pool-low-address |
address-pool-high-address | address-pool-excluded-address |
dhcp-lease-time-information | dhcp-option-table | address-count | assigned-lease-count |
active-lease-count | offered-lease-count | expired-lease-count | conflict-count |
exclusion-count)*>

<!ELEMENT dhcp-pool-information (dhcp-pool)*>
<!ATTLIST dhcp-pool-information junos:style CDATA #IMPLIED>

<!ELEMENT dhcp-statistics-information (dropped-packet-total |
dropped-packet-bad-hardware | dropped-packet-bad-opcode |
dropped-packet-bad-options | dropped-packet-invalid-server-address |
dropped-packet-no-addresses | dropped-packet-no-interface |
dropped-packet-no-routing-instance | dropped-packet-no-local-address |
dropped-packet-too-short | dropped-packet-read-error | dropped-packet-send-error |
message-table)*>

<!ELEMENT dropped-packet-bad-hardware (#PCDATA)>

<!ELEMENT dropped-packet-bad-opcode (#PCDATA)>

<!ELEMENT dropped-packet-bad-options (#PCDATA)>

<!ELEMENT dropped-packet-invalid-server-address (#PCDATA)>

<!ELEMENT dropped-packet-no-addresses (#PCDATA)>

<!ELEMENT dropped-packet-no-interface (#PCDATA)>

<!ELEMENT dropped-packet-no-local-address (#PCDATA)>

<!ELEMENT dropped-packet-no-routing-instance (#PCDATA)>

<!ELEMENT dropped-packet-read-error (#PCDATA)>

<!ELEMENT dropped-packet-send-error (#PCDATA)>

<!ELEMENT dropped-packet-too-short (#PCDATA)>

<!ELEMENT dropped-packet-total (#PCDATA)>

<!ELEMENT exclusion-count (#PCDATA)>

<!ELEMENT expired-lease-count (#PCDATA)>

<!ELEMENT helper-statistics (relay-information)*>

<!ELEMENT hex-data (#PCDATA)>

<!ELEMENT hex-data-line (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT lease-end-time (#PCDATA)>
<!ATTLIST lease-end-time junos:seconds CDATA #IMPLIED>

<!ELEMENT lease-start-time (#PCDATA)>
```

```
<!ATTLIST lease-start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT lease-state (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT maximum-lease-time (#PCDATA)>

<!ELEMENT message (message-name | message-count)*>

<!ELEMENT message-count (#PCDATA)>

<!ELEMENT message-direction (#PCDATA)>

<!ELEMENT message-name (#PCDATA)>

<!ELEMENT message-table (message-direction | message)*>

<!ELEMENT minimum-lease-time (#PCDATA)>

<!ELEMENT offered-lease-count (#PCDATA)>

<!ELEMENT printable-data-line (#PCDATA)>

<!ELEMENT relay-information (bootp-received-packets | bootp-forwarded-packets |
bootp-dropped-packets | bootp-dropped-packets-nointerface |
bootp-dropped-packets-nortinst | bootp-dropped-packets-badread |
bootp-dropped-packets-badsend | bootp-dropped-packets-badaddr |
bootp-dropped-packets-nolocaladdr | bootp-dropped-packets-noroute)*>
```

Chapter 20

DTD for DHCP Relay Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dhcp-relay.dtd, which lists the JUNOS XML tags that contain Dynamic Host Configuration Protocol (DHCP) Relay information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dhcp-relay. To review reference pages for the tags, see "Summary of DHCP Relay Response Tags" on page 776.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
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<!– junos-dhcp-relay.dtd –>

<!ELEMENT allocated-address (#PCDATA)>

<!ELEMENT binding-count (#PCDATA)>

<!ELEMENT binding-summary (binding-count | bound-count | selecting-count |
renewing-count | rebinding-count | restore-count)*>

<!ELEMENT bootp-relay-address (#PCDATA)>

<!ELEMENT bound-count (#PCDATA)>

<!ELEMENT client-identifier (hex-data | hex-data-line | printable-data-line)*>

<!ELEMENT dhcp-binding (allocated-address | mac-address | dhcp-lease-binding-type |
lease-end-time | lease-state | interface-name | bootp-relay-address |
dhcp-lease-information | client-identifier)*>

<!ELEMENT dhcp-lease-binding-type (#PCDATA)>

<!ELEMENT dhcp-lease-information (dhcp-lease-type | lease-start-time | lease-end-time |
lease-state)*>

<!ELEMENT dhcp-lease-type (#PCDATA)>

<!ELEMENT dhcp-relay-binding-information (binding-summary | dhcp-binding)*>
<!ATTLIST dhcp-relay-binding-information junos:style CDATA #IMPLIED>

<!ELEMENT dhcp-relay-statistics-information (dropped-packet-total |
dropped-packet-bad-hardware | dropped-packet-bad-opcode |
dropped-packet-bad-options | dropped-packet-invalid-server-address |
dropped-packet-no-addresses | dropped-packet-no-interface |
dropped-packet-no-routing-instance | dropped-packet-no-local-address |
```

```
dropped-packet-too-short | dropped-packet-read-error | dropped-packet-send-error |
dropped-packet-option-60 | dropped-packet-option-82 | dropped-packet-authentication |
dropped-packet-dynamic-profile | dropped-packet-license | message-table)*>

<!ELEMENT dropped-packet-authentication (#PCDATA)>

<!ELEMENT dropped-packet-bad-hardware (#PCDATA)>

<!ELEMENT dropped-packet-bad-opcode (#PCDATA)>

<!ELEMENT dropped-packet-bad-options (#PCDATA)>

<!ELEMENT dropped-packet-dynamic-profile (#PCDATA)>

<!ELEMENT dropped-packet-invalid-server-address (#PCDATA)>

<!ELEMENT dropped-packet-license (#PCDATA)>

<!ELEMENT dropped-packet-no-addresses (#PCDATA)>

<!ELEMENT dropped-packet-no-interface (#PCDATA)>

<!ELEMENT dropped-packet-no-local-address (#PCDATA)>

<!ELEMENT dropped-packet-no-routing-instance (#PCDATA)>

<!ELEMENT dropped-packet-option-60 (#PCDATA)>

<!ELEMENT dropped-packet-option-82 (#PCDATA)>

<!ELEMENT dropped-packet-read-error (#PCDATA)>

<!ELEMENT dropped-packet-send-error (#PCDATA)>

<!ELEMENT dropped-packet-too-short (#PCDATA)>

<!ELEMENT dropped-packet-total (#PCDATA)>

<!ELEMENT hex-data (#PCDATA)>

<!ELEMENT hex-data-line (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT lease-end-time (#PCDATA)>
<!ATTLIST lease-end-time junos:seconds CDATA #IMPLIED>

<!ELEMENT lease-start-time (#PCDATA)>
<!ATTLIST lease-start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT lease-state (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT message (message-name | message-count)*>

<!ELEMENT message-count (#PCDATA)>
```

```
<!ELEMENT message-direction (#PCDATA)>

<!ELEMENT message-name (#PCDATA)>

<!ELEMENT message-table (message-direction | message)*>

<!ELEMENT printable-data-line (#PCDATA)>

<!ELEMENT rebinding-count (#PCDATA)>

<!ELEMENT renewing-count (#PCDATA)>

<!ELEMENT restore-count (#PCDATA)>

<!ELEMENT selecting-count (#PCDATA)>
```

Chapter 21

DTD for DHCP Server Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dhcp-server.dtd, which lists the JUNOS XML tags that contain Dynamic Host Configuration Protocol (DHCP) Server information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dhcp-server. To review reference pages for the tags, see "Summary of DHCP Server Response Tags" on page 782.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-dhcp-server.dtd –>

<!ELEMENT allocated-address (#PCDATA)>

<!ELEMENT binding-count (#PCDATA)>

<!ELEMENT binding-summary (binding-count | bound-count | selecting-count |
renewing-count | rebinding-count | restore-count)*>

<!ELEMENT bootp-relay-address (#PCDATA)>

<!ELEMENT bound-count (#PCDATA)>

<!ELEMENT client-identifier (hex-data | hex-data-line | printable-data-line)*>

<!ELEMENT dhcp-binding (allocated-address | mac-address | dhcp-lease-binding-type |
lease-start-time | lease-end-time | lease-state | dhcp-lease-type | interface-name |
bootp-relay-address | client-identifier)*>

<!ELEMENT dhcp-lease-binding-type (#PCDATA)>

<!ELEMENT dhcp-lease-type (#PCDATA)>

<!ELEMENT dhcp-server-binding-information (binding-summary | dhcp-binding)*>
<!ATTLIST dhcp-server-binding-information junos:style CDATA #IMPLIED>

<!ELEMENT dhcp-server-statistics-information (dropped-packet-total |
dropped-packet-bad-hardware | dropped-packet-bad-opcode |
dropped-packet-bad-options | dropped-packet-invalid-server-address |
dropped-packet-no-addresses | dropped-packet-no-interface |
dropped-packet-no-routing-instance | dropped-packet-no-local-address |
dropped-packet-too-short | dropped-packet-read-error | dropped-packet-send-error |
dropped-packet-authentication | dropped-packet-dynamic-profile |
dropped-packet-license | v6-dropped-packet-total | v6-dropped-packet-no-safd |
```

```
v6-dropped-packet-bad-send | v6-dropped-packet-short-packet |
v6-dropped-packet-bad-msgtype | v6-dropped-packet-bad-options |
v6-dropped-packet-bad-srcaddress | v6-dropped-packet-relay-hop-count |
v6-dropped-packet-no-client-id | message-table)*>

<!ELEMENT dropped-packet-authentication (#PCDATA)>

<!ELEMENT dropped-packet-bad-hardware (#PCDATA)>

<!ELEMENT dropped-packet-bad-opcode (#PCDATA)>

<!ELEMENT dropped-packet-bad-options (#PCDATA)>

<!ELEMENT dropped-packet-dynamic-profile (#PCDATA)>

<!ELEMENT dropped-packet-invalid-server-address (#PCDATA)>

<!ELEMENT dropped-packet-license (#PCDATA)>

<!ELEMENT dropped-packet-no-addresses (#PCDATA)>

<!ELEMENT dropped-packet-no-interface (#PCDATA)>

<!ELEMENT dropped-packet-no-local-address (#PCDATA)>

<!ELEMENT dropped-packet-no-routing-instance (#PCDATA)>

<!ELEMENT dropped-packet-read-error (#PCDATA)>

<!ELEMENT dropped-packet-send-error (#PCDATA)>

<!ELEMENT dropped-packet-too-short (#PCDATA)>

<!ELEMENT dropped-packet-total (#PCDATA)>

<!ELEMENT hex-data (#PCDATA)>

<!ELEMENT hex-data-line (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT lease-end-time (#PCDATA)>
<!ATTLIST lease-end-time junos:seconds CDATA #IMPLIED>

<!ELEMENT lease-start-time (#PCDATA)>
<!ATTLIST lease-start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT lease-state (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT message (message-name | message-count)*>

<!ELEMENT message-count (#PCDATA)>

<!ELEMENT message-direction (#PCDATA)>
```

```
<!ELEMENT message-name (#PCDATA)>
<!ELEMENT message-table (message-direction | message)*>
<!ELEMENT printable-data-line (#PCDATA)>
<!ELEMENT rebinding-count (#PCDATA)>
<!ELEMENT renewing-count (#PCDATA)>
<!ELEMENT restore-count (#PCDATA)>
<!ELEMENT selecting-count (#PCDATA)>
<!ELEMENT v6-dropped-packet-bad-msgtype (#PCDATA)>
<!ELEMENT v6-dropped-packet-bad-options (#PCDATA)>
<!ELEMENT v6-dropped-packet-bad-send (#PCDATA)>
<!ELEMENT v6-dropped-packet-bad-srcaddress (#PCDATA)>
<!ELEMENT v6-dropped-packet-no-client-id (#PCDATA)>
<!ELEMENT v6-dropped-packet-no-safd (#PCDATA)>
<!ELEMENT v6-dropped-packet-relay-hop-count (#PCDATA)>
<!ELEMENT v6-dropped-packet-short-packet (#PCDATA)>
<!ELEMENT v6-dropped-packet-total (#PCDATA)>
```

Chapter 22

DTD for Dialer Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dood.dtd, which lists the JUNOS XML tags that contain Integrated Services Digital Network (ISDN) dialer information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dood. To review reference pages for the tags, see "Summary of Dialer Response Tags" on page 788.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-dood.dtd –>

<!ELEMENT activation-delay (#PCDATA)>

<!ELEMENT activation-delay-elapsed (#PCDATA)>

<!ELEMENT backup EMPTY>

<!ELEMENT call-idle-timeout (#PCDATA)>

<!ELEMENT callback-wait-period (#PCDATA)>

<!ELEMENT callback-wait-period-elapsed (#PCDATA)>

<!ELEMENT deactivation-delay (#PCDATA)>

<!ELEMENT deactivation-delay-elapsed (#PCDATA)>

<!ELEMENT default-activation-delay (#PCDATA)>

<!ELEMENT default-callback-wait-period (#PCDATA)>

<!ELEMENT default-deactivation-delay (#PCDATA)>

<!ELEMENT default-idle-timeout (#PCDATA)>

<!ELEMENT default-initial-route-check (#PCDATA)>

<!ELEMENT default-load-interval (#PCDATA)>

<!ELEMENT default-load-threshold (#PCDATA)>

<!ELEMENT default-pool-priority (#PCDATA)>

<!ELEMENT default-redial-delay (#PCDATA)>
```

```
<!ELEMENT dial-string (#PCDATA)>

<!ELEMENT dial-string-list (dial-string)*>
<!ATTLIST dial-string-list junos:style CDATA #IMPLIED>

<!ELEMENT dialer-defaults-information (default-idle-timeout | default-activation-delay |
default-deactivation-delay | default-initial-route-check | default-pool-priority |
default-load-threshold | default-load-interval | default-redial-delay |
default-callback-wait-period)*>

<!ELEMENT dialer-info (dialer-interface-name | dialer-interface-state |
dialer-interface-flags)*>

<!ELEMENT dialer-interface (dialer-interface-name | dialer-interface-state |
dialer-interface-flags | pool-id | primary-interface | dial-string-list | sub-interface-list |
watch-list | activation-delay | deactivation-delay | activation-delay-elapsed |
deactivation-delay-elapsed | call-idle-timeout | initial-route-check | redial-delay |
callback-wait-period | callback-wait-period-elapsed | load-threshold | load-interval)*>

<!ELEMENT dialer-interface-flags (backup | multilink | watchlist | interesting-detected)*>

<!ELEMENT dialer-interface-information (dialer-interface)*>
<!ATTLIST dialer-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT dialer-interface-name (#PCDATA)>

<!ELEMENT dialer-interface-state (#PCDATA)>

<!ELEMENT dialer-pool (pool-id | pool-member-list)*>

<!ELEMENT dialer-pool-information (dialer-pool)*>
<!ATTLIST dialer-pool-information junos:style CDATA #IMPLIED>

<!ELEMENT initial-route-check (#PCDATA)>

<!ELEMENT interesting-detected EMPTY>

<!ELEMENT load-interval (#PCDATA)>

<!ELEMENT load-threshold (#PCDATA)>

<!ELEMENT multilink EMPTY>

<!ELEMENT pool-id (#PCDATA)>

<!ELEMENT pool-member-list (dialer-info | sub-info)*>

<!ELEMENT pool-priority (#PCDATA)>

<!ELEMENT primary-interface (#PCDATA)>

<!ELEMENT redial-delay (#PCDATA)>

<!ELEMENT sub-info (sub-interface-name | sub-interface-flags | pool-priority)*>

<!ELEMENT sub-interface-flags (#PCDATA)>
```

```
<!ELEMENT sub-interface-list (sub-interface-name)*>
<!ATTLIST sub-interface-list junos:style CDATA #IMPLIED>

<!ELEMENT sub-interface-name (#PCDATA)>

<!ELEMENT watch-list (watch-route)*>
<!ATTLIST watch-list junos:style CDATA #IMPLIED>

<!ELEMENT watch-route (#PCDATA)>

<!ELEMENT watchlist EMPTY>
```

Chapter 23

DTD for Diameter Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-diamter.dtd, which lists the JUNOS XML tags that contain diameter information for peers and nodes. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-diameter. To review reference pages for the tags, see "Summary of Diameter Response Tags" on page 795.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-diameter.dtd –>

<!ELEMENT diameter-aca-message-received (#PCDATA)>

<!ELEMENT diameter-aca-message-sent (#PCDATA)>

<!ELEMENT diameter-acr-message-received (#PCDATA)>

<!ELEMENT diameter-acr-message-sent (#PCDATA)>

<!ELEMENT diameter-active-session (#PCDATA)>

<!ELEMENT diameter-all-peer-connection-tags (diameter-peer-address |
diameter-peer-port | diameter-node-address | diameter-node-port |
diameter-current-connection-start-time | diameter-message-sent |
diameter-message-received | diameter-bad-message-received |
diameter-last-message-received-time | diameter-last-message-sent-time)*>

<!ELEMENT diameter-all-peer-summary-tags (diameter-peer-mandatory-name |
diameter-peer-mandatory-ipaddr | diameter-application-id | diameter-application-name |
diameter-connection-status)*>

<!ELEMENT diameter-application-id (#PCDATA)>

<!ELEMENT diameter-application-name (#PCDATA)>

<!ELEMENT diameter-application-supported (#PCDATA)>

<!ELEMENT diameter-asa-message-received (#PCDATA)>

<!ELEMENT diameter-asa-message-sent (#PCDATA)>

<!ELEMENT diameter-asr-message-received (#PCDATA)>

<!ELEMENT diameter-asr-message-sent (#PCDATA)>
```

<!ELEMENT diameter-bad-message-received (#PCDATA)>

<!ELEMENT diameter-cea-message-received (#PCDATA)>

<!ELEMENT diameter-cea-message-sent (#PCDATA)>

<!ELEMENT diameter-cer-message-received (#PCDATA)>

<!ELEMENT diameter-cer-message-sent (#PCDATA)>

<!ELEMENT diameter-closed-session (#PCDATA)>

<!ELEMENT diameter-connection-status (#PCDATA)>

<!ELEMENT diameter-connection-type (#PCDATA)>

<!ELEMENT diameter-current-connection-start-time (#PCDATA)>

<!ELEMENT diameter-dpa-message-received (#PCDATA)>

<!ELEMENT diameter-dpa-message-sent (#PCDATA)>

<!ELEMENT diameter-dpr-message-received (#PCDATA)>

<!ELEMENT diameter-dpr-message-sent (#PCDATA)>

<!ELEMENT diameter-dwa-message-received (#PCDATA)>

<!ELEMENT diameter-dwa-message-sent (#PCDATA)>

<!ELEMENT diameter-dwr-message-received (#PCDATA)>

<!ELEMENT diameter-dwr-message-sent (#PCDATA)>

<!ELEMENT diameter-last-connection-closed-time (#PCDATA)>

<!ELEMENT diameter-last-connection-start-time (#PCDATA)>

<!ELEMENT diameter-last-message-received-time (#PCDATA)>

<!ELEMENT diameter-last-message-sent-time (#PCDATA)>

<!ELEMENT diameter-list-session-id (#PCDATA)>

<!ELEMENT diameter-message-received (#PCDATA)>

<!ELEMENT diameter-message-sent (#PCDATA)>

```
<!ELEMENT diameter-message-statistics-tags (diameter-asr-message-sent |
diameter-asa-message-received | diameter-asr-message-received |
diameter-asa-message-sent | diameter-acr-message-sent |
diameter-aca-message-received | diameter-acr-message-received |
diameter-aca-message-sent | diameter-cer-message-sent |
diameter-cea-message-received | diameter-cer-message-received |
diameter-cea-message-sent | diameter-dwr-message-sent |
diameter-dwa-message-received | diameter-dwr-message-received |
diameter-dwa-message-sent | diameter-dpr-message-sent |
diameter-dpa-message-received | diameter-dpr-message-received |
diameter-dpa-message-sent | diameter-rar-message-sent |
diameter-raa-message-received | diameter-rar-message-received |
diameter-raa-message-sent | diameter-str-message-sent |
diameter-sta-message-received | diameter-str-message-received |
diameter-sta-message-sent)*>

<!ELEMENT diameter-node-address (#PCDATA)>

<!ELEMENT diameter-node-port (#PCDATA)>

<!ELEMENT diameter-opened-session (#PCDATA)>

<!ELEMENT diameter-peer-active (#PCDATA)>

<!ELEMENT diameter-peer-address (#PCDATA)>

<!ELEMENT diameter-peer-closed (#PCDATA)>

<!ELEMENT diameter-peer-connected (#PCDATA)>

<!ELEMENT diameter-peer-mandatory-ipaddr (#PCDATA)>

<!ELEMENT diameter-peer-mandatory-name (#PCDATA)>

<!ELEMENT diameter-peer-port (#PCDATA)>

<!ELEMENT diameter-peer-session-tags (diameter-session-id | diameter-session-tba)*>

<!ELEMENT diameter-peer-statistics-tags (diameter-message-statistics-tags)*>

<!ELEMENT diameter-peer-summary-tags (diameter-peer-mandatory-name |
diameter-peer-mandatory-ipaddr | diameter-connection-status |
diameter-connection-type | diameter-peer-port | diameter-security |
diameter-application-supported | diameter-message-sent | diameter-message-received |
diameter-bad-message-received | diameter-opened-session | diameter-closed-session |
diameter-active-session | diameter-list-session-id | diameter-last-connection-start-time |
diameter-last-connection-closed-time | diameter-current-connection-start-time)*>

<!ELEMENT diameter-pid (#PCDATA)>

<!ELEMENT diameter-process-summary-tags (diameter-pid | diameter-up-time |
diameter-peer-connected | diameter-peer-closed | diameter-peer-active)*>

<!ELEMENT diameter-raa-message-received (#PCDATA)>

<!ELEMENT diameter-raa-message-sent (#PCDATA)>
```

```
<!ELEMENT diameter-rar-message-received (#PCDATA)>

<!ELEMENT diameter-rar-message-sent (#PCDATA)>

<!ELEMENT diameter-security (#PCDATA)>

<!ELEMENT diameter-session-id (#PCDATA)>

<!ELEMENT diameter-session-tba (#PCDATA)>

<!ELEMENT diameter-sta-message-received (#PCDATA)>

<!ELEMENT diameter-sta-message-sent (#PCDATA)>

<!ELEMENT diameter-statistics-tags (diameter-message-statistics-tags)*>

<!ELEMENT diameter-str-message-received (#PCDATA)>

<!ELEMENT diameter-str-message-sent (#PCDATA)>

<!ELEMENT diameter-up-time (#PCDATA)>

<!ELEMENT show-diameter-peer-results (diameter-peer-summary-tags |
diameter-peer-session-tags | diameter-peer-statistics-tags)*>
<!ATTLIST show-diameter-peer-results junos:style CDATA #IMPLIED>

<!ELEMENT show-diameter-results (diameter-process-summary-tags |
diameter-all-peer-summary-tags | diameter-all-peer-connection-tags |
diameter-statistics-tags)*>
<!ATTLIST show-diameter-results junos:style CDATA #IMPLIED>
```

Chapter 24

DTD for Dynamic Configuration Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dynamic-configuration.dtd, which lists the JUNOS XML tags that contain dynamic configuration information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dynamic-configuration. To review reference pages for the tags, see "Summary of Dynamic Configuration Response Tags" on page 804.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-dynamic-configuration.dtd –>

<!ELEMENT accounting-interval (#PCDATA)>

<!ELEMENT accounting-session-id (#PCDATA)>

<!ELEMENT accounting-type (#PCDATA)>

<!ELEMENT ack-received (#PCDATA)>

<!ELEMENT ack-sent (#PCDATA)>

<!ELEMENT action (#PCDATA)>

<!ELEMENT address-pool (#PCDATA)>

<!ELEMENT aggregate-type (#PCDATA)>

<!ELEMENT attribute-name (#PCDATA)>

<!ELEMENT attribute-value (#PCDATA)>

<!ELEMENT backpressure (#PCDATA)>

<!ELEMENT client-session-info (accounting-session-id | address-pool | interface |
ip-address | ip-address-mask | ipv6-address | ipv6-address-mask | logical-system |
profile | mac-address | nas-port-type | routing-instance | session-id | client-session-type |
user-name | dhcp-gi-address | ifl-type | service-bundle | nas-ipv6-address |
framed-ipv6-prefix | login-ipv6-host | delegated-ipv6-prefix | framed-interface-id |
framed-ipv6-pool | aggregate-type | logical-interface | accounting-type |
accounting-interval | state | dynamic-configuration-info | session-ids)*>
```

<!ELEMENT client-session-type (#PCDATA)>

<!ELEMENT collect-perf (#PCDATA)>

<!ELEMENT connection (peer-name | connection-status | socket | queue)*>

<!ELEMENT connection-status (#PCDATA)>

<!ELEMENT consumer-message-counters (msg-received | ack-sent | nak-sent)*>

<!ELEMENT consumer-received (#PCDATA)>

<!ELEMENT consumer-sent (#PCDATA)>

<!ELEMENT cur-index (#PCDATA)>

<!ELEMENT delegated-ipv6-prefix (#PCDATA)>

<!ELEMENT dhcp-gi-address (#PCDATA)>

<!ELEMENT dynamic-configuration-attribute (attribute-name | attribute-value)*>

<!ELEMENT dynamic-configuration-info (dynamic-configuration-attribute)*>

<!ELEMENT dynamic-configuration-information (session-ids | client-session-info | service-session-info | results | profile-results)*>

<!ELEMENT entry-delta-microseconds (#PCDATA)>

<!ELEMENT entry-delta-microseconds-perf (#PCDATA)>

<!ELEMENT entry-delta-seconds (#PCDATA)>

<!ELEMENT entry-delta-seconds-perf (#PCDATA)>

<!ELEMENT failure (#PCDATA)>

<!ELEMENT failure-reason (#PCDATA)>

<!ELEMENT framed-interface-id (#PCDATA)>

<!ELEMENT framed-ipv6-pool (#PCDATA)>

<!ELEMENT framed-ipv6-prefix (#PCDATA)>

<!ELEMENT frozen (#PCDATA)>

<!ELEMENT ifl-type (#PCDATA)>

<!ELEMENT index (#PCDATA)>

<!ELEMENT index-perf (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

```
<!ELEMENT ip-address-mask (#PCDATA)>
<!ELEMENT ipc-errors (#PCDATA)>
<!ELEMENT ipc-received (#PCDATA)>
<!ELEMENT ipc-sent (#PCDATA)>
<!ELEMENT ipv6-address (#PCDATA)>
<!ELEMENT ipv6-address-mask (#PCDATA)>
<!ELEMENT ivol-ctxsw-perf (#PCDATA)>
<!ELEMENT log-name (#PCDATA)>
<!ELEMENT log-prefix (#PCDATA)>
<!ELEMENT log-prefix-perf (#PCDATA)>
<!ELEMENT logged-data (#PCDATA)>
<!ELEMENT logged-data-perf (#PCDATA)>
<!ELEMENT logical-interface (#PCDATA)>
<!ELEMENT logical-system (#PCDATA)>
<!ELEMENT login-ipv6-host (#PCDATA)>
<!ELEMENT mac-address (#PCDATA)>
<!ELEMENT max-data (#PCDATA)>
<!ELEMENT max-entries (#PCDATA)>
<!ELEMENT msg-complete (#PCDATA)>
<!ELEMENT msg-held (#PCDATA)>
<!ELEMENT msg-pending (#PCDATA)>
<!ELEMENT msg-posted (#PCDATA)>
<!ELEMENT msg-received (#PCDATA)>
<!ELEMENT msg-sent (#PCDATA)>
<!ELEMENT nak-received (#PCDATA)>
<!ELEMENT nak-sent (#PCDATA)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT nas-ipv6-address (#PCDATA)>
<!ELEMENT nas-port-type (#PCDATA)>
```

```
<!ELEMENT peer-name (#PCDATA)>

<!ELEMENT performance-counters (socket-received | socket-sent | socket-errors |
ipc-received | ipc-sent | ipc-errors)*>

<!ELEMENT process-id (#PCDATA)>

<!ELEMENT process-id-perf (#PCDATA)>

<!ELEMENT producer-message-counters (msg-sent | ack-received | nak-received |
backpressure)*>

<!ELEMENT producer-received (#PCDATA)>

<!ELEMENT producer-sent (#PCDATA)>

<!ELEMENT profile (#PCDATA)>

<!ELEMENT profile-action (#PCDATA)>

<!ELEMENT profile-name (#PCDATA)>

<!ELEMENT profile-results (profile-name | profile-action | session-id | session-type |
request-result | failure-reason)*>
<!ATTLIST profile-results junos:style CDATA #IMPLIED>

<!ELEMENT queue (msg-complete | msg-posted | msg-pending | msg-held)*>

<!ELEMENT request-result (#PCDATA)>

<!ELEMENT results (action | session-type | session-id | success | failure)*>
<!ATTLIST results junos:style CDATA #IMPLIED>

<!ELEMENT role (#PCDATA)>

<!ELEMENT routing-instance (#PCDATA)>

<!ELEMENT running-time-microseconds (#PCDATA)>

<!ELEMENT running-time-microseconds-perf (#PCDATA)>

<!ELEMENT running-time-seconds (#PCDATA)>

<!ELEMENT running-time-seconds-perf (#PCDATA)>

<!ELEMENT service-bundle (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>

<!ELEMENT service-session-info (session-id | start-time | service-name | state |
dynamic-configuration-info)*>

<!ELEMENT session-id (#PCDATA)>

<!ELEMENT session-ids (session-id)*>
<!ATTLIST session-ids junos:style CDATA #IMPLIED>
```

```
<!ELEMENT session-type (#PCDATA)>

<!ELEMENT shm-ipc-statistics (user | failure-reason)*>

<!ELEMENT socket (consumer-received | consumer-sent | producer-received |
producer-sent)*>

<!ELEMENT socket-errors (#PCDATA)>

<!ELEMENT socket-received (#PCDATA)>

<!ELEMENT socket-sent (#PCDATA)>

<!ELEMENT start-time (#PCDATA)>
<!ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT state (#PCDATA)>

<!ELEMENT status (#PCDATA)>

<!ELEMENT success EMPTY>

<!ELEMENT system-cpu-microseconds-perf (#PCDATA)>

<!ELEMENT system-cpu-seconds-perf (#PCDATA)>

<!ELEMENT system-time-microseconds (#PCDATA)>

<!ELEMENT system-time-microseconds-perf (#PCDATA)>

<!ELEMENT system-time-seconds (#PCDATA)>

<!ELEMENT system-time-seconds-perf (#PCDATA)>

<!ELEMENT thread-id (#PCDATA)>

<!ELEMENT thread-id-perf (#PCDATA)>

<!ELEMENT tracelog-data (tracelog-entry)*>

<!ELEMENT tracelog-data-performance (tracelog-entry-performance)*>

<!ELEMENT tracelog-entry (log-prefix | index | process-id | thread-id | entry-delta-seconds
| entry-delta-microseconds | running-time-seconds | running-time-microseconds |
system-time-seconds | system-time-microseconds | logged-data)*>

<!ELEMENT tracelog-entry-performance (log-prefix-perf | index-perf | process-id-perf |
thread-id-perf | entry-delta-seconds-perf | entry-delta-microseconds-perf |
running-time-seconds-perf | running-time-microseconds-perf | user-cpu-seconds-perf |
user-cpu-microseconds-perf | system-cpu-seconds-perf | system-cpu-microseconds-perf |
system-time-seconds-perf | system-time-microseconds-perf | vol-ctxsw-perf |
ivol-ctxsw-perf | logged-data-perf)*>

<!ELEMENT tracelog-information (tracelog-status-info)*>
```

```
<!ELEMENT tracelog-status-info (log-name | max-entries | cur-index | max-data | wrap-cnt
| wrapable | frozen | collect-perf)*>

<!ELEMENT user (name | role | status | performance-counters |
producer-message-counters | consumer-message-counters | connection)*>

<!ELEMENT user-cpu-microseconds-perf (#PCDATA)>

<!ELEMENT user-cpu-seconds-perf (#PCDATA)>

<!ELEMENT user-name (#PCDATA)>

<!ELEMENT vol-ctxsw-perf (#PCDATA)>

<!ELEMENT wrap-cnt (#PCDATA)>

<!ELEMENT wrapable (#PCDATA)>
```

Chapter 25

DTD for Dynamic Flow Capture Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-dfc.dtd, which lists the JUNOS XML tags that contain dynamic flow capture information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-dfc. To review reference pages for the tags, see "Summary of Dynamic Flow Capture Response Tags" on page 818.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-dfc.dtd –>

<!ELEMENT active-criteria (#PCDATA)>

<!ELEMENT active-criteria-dynamic (#PCDATA)>

<!ELEMENT active-criteria-static (#PCDATA)>

<!ELEMENT add-request-peak-rate (#PCDATA)>

<!ELEMENT add-request-rate (#PCDATA)>

<!ELEMENT average-bandwidth (#PCDATA)>

<!ELEMENT bandwidth (#PCDATA)>

<!ELEMENT bandwidth-all (#PCDATA)>

<!ELEMENT capture-group-id (#PCDATA)>

<!ELEMENT congestion-notifications (#PCDATA)>

<!ELEMENT content-destination-id (#PCDATA)>

<!ELEMENT content-destination-information (capture-group-id | content-destination-id |
criteria | bandwidth | average-bandwidth | matched-packets | matched-bytes |
dropped-packets | congestion-notifications)*>
<!ATTLIST content-destination-information junos:style CDATA #IMPLIED>

<!ELEMENT control-protocol-requests (#PCDATA)>

<!ELEMENT control-protocol-requests-add (#PCDATA)>
```

```
<!ELEMENT control-protocol-requests-add-failed (#PCDATA)>

<!ELEMENT control-protocol-requests-delete (#PCDATA)>

<!ELEMENT control-protocol-requests-delete-failed (#PCDATA)>

<!ELEMENT control-protocol-requests-list (#PCDATA)>

<!ELEMENT control-protocol-requests-list-failed (#PCDATA)>

<!ELEMENT control-protocol-requests-noop (#PCDATA)>

<!ELEMENT control-protocol-requests-noop-failed (#PCDATA)>

<!ELEMENT control-protocol-requests-refresh (#PCDATA)>

<!ELEMENT control-protocol-requests-refresh-failed (#PCDATA)>

<!ELEMENT control-source-id (#PCDATA)>

<!ELEMENT control-source-information (capture-group-id | control-source-id |
criteria-added | criteria-add-failed | active-criteria | active-criteria-static |
active-criteria-dynamic | control-protocol-requests | control-protocol-requests-add |
control-protocol-requests-delete | control-protocol-requests-list |
control-protocol-requests-refresh | control-protocol-requests-noop |
control-protocol-requests-add-failed | control-protocol-requests-delete-failed |
control-protocol-requests-list-failed | control-protocol-requests-refresh-failed |
control-protocol-requests-noop-failed | add-request-rate | add-request-peak-rate |
bandwidth-all | notifications | notifications-restart | notifications-rollover |
notifications-noop | notifications-timeout | notifications-congestion |
notifications-congestion-delete | notifications-dups-dropped | criteria-deleted |
criteria-deleted-timeout-idle | criteria-deleted-timeout-total | criteria-deleted-packets |
criteria-deleted-bytes | sequence-number)*>
<!ATTLIST control-source-information junos:style CDATA #IMPLIED>

<!ELEMENT criteria (#PCDATA)>

<!ELEMENT criteria-add-failed (#PCDATA)>

<!ELEMENT criteria-added (#PCDATA)>

<!ELEMENT criteria-deleted (#PCDATA)>

<!ELEMENT criteria-deleted-bytes (#PCDATA)>

<!ELEMENT criteria-deleted-packets (#PCDATA)>

<!ELEMENT criteria-deleted-timeout-idle (#PCDATA)>

<!ELEMENT criteria-deleted-timeout-total (#PCDATA)>

<!ELEMENT dfc-information (control-source-information |
content-destination-information | dfc-statistics-information)*>
```

```
<!ELEMENT dfc-statistics-information (capture-group-id | input-packets-control-protocol |
input-packets-cap-data | input-packets-control-iri | input-packets-control-protocol-not-ip |
input-packets-control-protocol-not-udp | input-packets-control-protocol-invalid-dest-ip |
input-packets-control-protocol-drop-other |
input-packets-control-protocol-drop-no-memory |
input-packets-control-protocol-drop-unauthorized |
input-packets-control-protocol-drop-bad-req |
input-packets-control-protocol-drop-unknown-control-source |
input-packets-control-protocol-drop-not-dtcp |
input-packets-control-protocol-drop-bad-cmdline |
input-packets-control-protocol-drop-bandwidth-exceeded |
input-packets-control-protocol-drop-rate-bandwidth-exceeded |
input-packets-drop-unknown | input-packets-drop-cap-data-not-ipv4 |
input-packets-drop-cap-data-too-small | input-packets-drop-cap-data-drop |
input-packets-drop-cap-data-nomatch | input-packets-drop-bandwidth-exceeded |
input-packets-drop-rate-bandwidth-exceeded | output-packets-control-protocol |
output-packets-cap-data | output-packets-drop-control-protocol |
output-packets-drop-cap-data | flowstats-active-cache-entries-count |
flowstats-active-cache-usage-percentage | flowstats-cache-entries-allocated |
flowstats-control-source-count | flowstats-content-destination-count |
flowstats-criteria-count | flowstats-maximum-criteria-matching-flow |
flowstats-purged-flows | flowstats-maximum-filter-matching-packet)*>

<!ELEMENT dropped-packets (#PCDATA)>

<!ELEMENT flowstats-active-cache-entries-count (#PCDATA)>

<!ELEMENT flowstats-active-cache-usage-percentage (#PCDATA)>

<!ELEMENT flowstats-cache-entries-allocated (#PCDATA)>

<!ELEMENT flowstats-content-destination-count (#PCDATA)>

<!ELEMENT flowstats-control-source-count (#PCDATA)>

<!ELEMENT flowstats-criteria-count (#PCDATA)>

<!ELEMENT flowstats-maximum-criteria-matching-flow (#PCDATA)>

<!ELEMENT flowstats-maximum-filter-matching-packet (#PCDATA)>

<!ELEMENT flowstats-purged-flows (#PCDATA)>

<!ELEMENT input-packets-cap-data (#PCDATA)>

<!ELEMENT input-packets-control-iri (#PCDATA)>

<!ELEMENT input-packets-control-protocol (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-bad-cmdline (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-bad-req (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-bandwidth-exceeded (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-no-memory (#PCDATA)>
```

<!ELEMENT input-packets-control-protocol-drop-not-dtcp (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-other (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-rate-bandwidth-exceeded (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-unauthorized (#PCDATA)>

<!ELEMENT input-packets-control-protocol-drop-unknown-control-source (#PCDATA)>

<!ELEMENT input-packets-control-protocol-invalid-dest-ip (#PCDATA)>

<!ELEMENT input-packets-control-protocol-not-ip (#PCDATA)>

<!ELEMENT input-packets-control-protocol-not-udp (#PCDATA)>

<!ELEMENT input-packets-drop-bandwidth-exceeded (#PCDATA)>

<!ELEMENT input-packets-drop-cap-data-drop (#PCDATA)>

<!ELEMENT input-packets-drop-cap-data-nomatch (#PCDATA)>

<!ELEMENT input-packets-drop-cap-data-not-ipv4 (#PCDATA)>

<!ELEMENT input-packets-drop-cap-data-too-small (#PCDATA)>

<!ELEMENT input-packets-drop-rate-bandwidth-exceeded (#PCDATA)>

<!ELEMENT input-packets-drop-unknown (#PCDATA)>

<!ELEMENT matched-bytes (#PCDATA)>

<!ELEMENT matched-packets (#PCDATA)>

<!ELEMENT notifications (#PCDATA)>

<!ELEMENT notifications-congestion (#PCDATA)>

<!ELEMENT notifications-congestion-delete (#PCDATA)>

<!ELEMENT notifications-dups-dropped (#PCDATA)>

<!ELEMENT notifications-noop (#PCDATA)>

<!ELEMENT notifications-restart (#PCDATA)>

<!ELEMENT notifications-rollover (#PCDATA)>

<!ELEMENT notifications-timeout (#PCDATA)>

<!ELEMENT output-packets-cap-data (#PCDATA)>

<!ELEMENT output-packets-control-protocol (#PCDATA)>

<!ELEMENT output-packets-drop-cap-data (#PCDATA)>

<!ELEMENT output-packets-drop-control-protocol (#PCDATA)>

```
<!ELEMENT sequence-number (#PCDATA)>
```

Chapter 26

DTD for Firewall Filter Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-filter.dtd, which lists the JUNOS XML tags that contain firewall filter information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-filter. To review reference pages for the tags, see "Summary of Firewall Filter Response Tags" on page 826.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-filter.dtd –>

<!ELEMENT action-name (#PCDATA)>

<!ELEMENT byte-count (#PCDATA)>

<!ELEMENT counter (counter-name | byte-count | packet-count)*>

<!ELEMENT counter-name (#PCDATA)>

<!ELEMENT destination-address (#PCDATA)>

<!ELEMENT filter-information (filter-name | counter | policer)*>

<!ELEMENT filter-name (#PCDATA)>

<!ELEMENT firewall-db-object-config (#PCDATA)>

<!ELEMENT firewall-db-object-counts (firewall-db-object-type | firewall-db-object-dynamic
| firewall-db-object-config | firewall-db-object-kernel)*>

<!ELEMENT firewall-db-object-dynamic (#PCDATA)>

<!ELEMENT firewall-db-object-information (firewall-db-object-counts)*>

<!ELEMENT firewall-db-object-kernel (#PCDATA)>

<!ELEMENT firewall-db-object-type (#PCDATA)>

<!ELEMENT firewall-debug-information (firewall-debug-str)*>

<!ELEMENT firewall-debug-str (#PCDATA)>

<!ELEMENT firewall-emalloc-information (firewall-emalloc-stats)*>
```

```
<!ELEMENT firewall-emalloc-max-alloced (#PCDATA)>

<!ELEMENT firewall-emalloc-num-times (#PCDATA)>

<!ELEMENT firewall-emalloc-phase (#PCDATA)>

<!ELEMENT firewall-emalloc-stats (firewall-emalloc-phase | firewall-emalloc-type |
firewall-emalloc-num-times | firewall-emalloc-max-alloced)*>

<!ELEMENT firewall-emalloc-type (#PCDATA)>

<!ELEMENT firewall-information (filter-information)*>

<!ELEMENT firewall-log-information (log-information)*>

<!ELEMENT firewall-prefix-action-information (filter-name | counter | policer)*>

<!ELEMENT icmp-code (#PCDATA)>

<!ELEMENT icmp-type (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT log-information (time | filter-name | action-name | interface-name |
protocol-name | source-address | destination-address | packet-length | icmp-type |
icmp-code)*>
<!ATTLIST log-information junos:style CDATA #IMPLIED>

<!ELEMENT packet-count (#PCDATA)>

<!ELEMENT packet-length (#PCDATA)>

<!ELEMENT policer (policer-name | packet-count)*>

<!ELEMENT policer-name (#PCDATA)>

<!ELEMENT protocol-name (#PCDATA)>

<!ELEMENT source-address (#PCDATA)>

<!ELEMENT time (#PCDATA)>
```

Chapter 27

DTD for GRES Test Point Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-gres-test-point.dtd, which lists the JUNOS XML tags that contain GRES Test Point information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-gres-test-point. To review reference pages for the tags, see "Summary of GRES Test Point Tags" on page 834.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-gres-test-point.dtd –>

<!ELEMENT actions (trigger-after | delay | trigger-count | hold-database | kernel-panic |
daemon-restart)*>

<!ELEMENT daemon-restart EMPTY>

<!ELEMENT delay (#PCDATA)>

<!ELEMENT description (#PCDATA)>

<!ELEMENT gres-test-point-error (message)*>

<!ELEMENT gres-test-point-information (gres-test-point-list | gres-test-point-error)*>
<!ATTLIST gres-test-point-information junos:style CDATA #IMPLIED>

<!ELEMENT gres-test-point-list (test-point)*>

<!ELEMENT hit-count (#PCDATA)>

<!ELEMENT hold-database (#PCDATA)>

<!ELEMENT id (#PCDATA)>

<!ELEMENT kernel-panic EMPTY>

<!ELEMENT message (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT test-point (id | description | state | hit-count | actions)*>

<!ELEMENT trigger-after (#PCDATA)>

<!ELEMENT trigger-count (#PCDATA)>
```

Chapter 28

DTD for Graceful Switchover Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-switchover.dtd, which lists the JUNOS XML tags that contain graceful Routing Engine switchover information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-switchover. To review reference pages for the tags, see "Summary of Graceful Switchover Response Tags" on page 831.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-switchover.dtd –>

<!ELEMENT configuration-ready EMPTY>

<!ELEMENT configuration-state (configuration-ready | configuration-synchronizing |
configuration-synchronize-error)*>

<!ELEMENT configuration-synchronize-error EMPTY>

<!ELEMENT configuration-synchronizing EMPTY>

<!ELEMENT gres-mode EMPTY>

<!ELEMENT multi-routing-engine-item (re-name | switchover-information)*>

<!ELEMENT multi-routing-engine-results (multi-routing-engine-item)*>

<!ELEMENT multichassis-mode EMPTY>

<!ELEMENT peer-connected EMPTY>

<!ELEMENT peer-in-steady-state EMPTY>

<!ELEMENT peer-transition-state (peer-connected | peer-in-steady-state)*>

<!ELEMENT re-name (#PCDATA)>

<!ELEMENT replication-connection-error EMPTY>

<!ELEMENT replication-error EMPTY>

<!ELEMENT replication-init-error EMPTY>
```

```
<!ELEMENT replication-ready EMPTY>

<!ELEMENT replication-reconnect-error EMPTY>

<!ELEMENT replication-state (replication-ready | replication-synchronizing |
replication-error | replication-version-mismatch | replication-connection-error |
replication-reconnect-error | replication-init-error)*>

<!ELEMENT replication-synchronizing EMPTY>

<!ELEMENT replication-version-mismatch EMPTY>

<!ELEMENT switchover-information (switchover-state | switchover-mode |
configuration-state | replication-state | peer-transition-state)*>

<!ELEMENT switchover-mode (multichassis-mode | gres-mode | unknown-mode)*>

<!ELEMENT switchover-state (#PCDATA)>

<!ELEMENT unknown-mode EMPTY>
```

Chapter 29

DTD for Interface Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-interface.dtd, which lists the JUNOS XML tags that contain information about routing platform interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-interface. To review reference pages for the tags, see "Summary of Interface Response Tags" on page 863.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-interface.dtd –>

<!ELEMENT ac-name-config (#PCDATA)>

<!ELEMENT ac-name-session (#PCDATA)>

<!ELEMENT activation-delay (#PCDATA)>

<!ELEMENT activation-delay-elapsed (#PCDATA)>

<!ELEMENT active-alarms (type | interface-alarms)*>

<!ELEMENT active-alarms-otn (type-otn | interface-alarms)*>

<!ELEMENT active-bundle-links (#PCDATA)>

<!ELEMENT active-defects (type | interface-alarms)*>

<!ELEMENT active-defects-otn (type-otn | interface-alarms)*>

<!ELEMENT address-family (compression-device-name | address-family-name |
multilink-bundle-name | as-bundle-name | ae-bundle-name | es-sa-name |
es-sa-fail-count | es-sa-xmt-seq-num | es-sa-recv-seq-num | mtu | address-family-flags |
address-family-unnumbered | arp-respond-any-local-address | generation | route-table |
filter-information | policer-information | interface-address | mac-validate-statistics |
route-rpf-statistics | destination-class-statistics | source-class-statistics)*>
```

<!ELEMENT address-family-flags (ifff-none | ifff-primary | ifff-redirects | ifff-no-redirects | ifff-no-arp-learn | ifff-hard-down | ifff-down | ifff-up | ifff-func1 | ifff-func2 | ifff-is-primary | ifff-recv-options | ifff-recv-ttl-exceeded | ifff-dst-class-usage | ifff-src-class-input | ifff-src-class-output | ifff-mtu-user-conf | ifff-mac-validate-strict | ifff-mac-validate-loose | ifff-rpf-check | ifff-rpf-loose-mode | ifff-sample-input | ifff-sample-output | ifff-no-asynch-notification | ifff-negotiate-address | ifff-port-mode-trunk | ifff-mtu-protocol-adj | ifff-unnumbered | ifff-tcc-mpls | ifff-tcc-inet | ifff-tcc-inet6 | ifff-tcc-iso | generic-value)*>

<!ELEMENT address-family-name (#PCDATA)>

<!ELEMENT address-family-unnumbered (unnumbered-family-donor-interface-name | unnumbered-family-donor-interface-index | unnumbered-family-preferred-source-address)*>

<!ELEMENT admin-state (#PCDATA)>

<!ELEMENT admin-status (#PCDATA)>
<!ATTLIST admin-status junos:format CDATA #IMPLIED>

<!ELEMENT adsl-annex-type (#PCDATA)>

<!ELEMENT adsl-last-fail-code (#PCDATA)>

<!ELEMENT adsl-seconds-in-showtime (#PCDATA)>

<!ELEMENT adsl-subfunction (#PCDATA)>

<!ELEMENT ae-bundle-name (#PCDATA)>

<!ELEMENT aged-packets (#PCDATA)>

<!ELEMENT alarm-not-present EMPTY>

<!ELEMENT alternate-physical-address (#PCDATA)>

<!ELEMENT apd-supply-fault-alarm (#PCDATA)>

<!ELEMENT arp-respond-any-local-address (#PCDATA)>

<!ELEMENT as-bundle-name (#PCDATA)>

<!ELEMENT atm-cos-information (vc-cos-mode | atm-cos-queue)*>
<!ATTLIST atm-cos-information junos:style CDATA #IMPLIED>

<!ELEMENT atm-cos-plp-statistics (atm-plp0-output-bytes | atm-plp1-output-bytes | atm-plp0-output-packets | atm-plp1-output-packets | atm-plp0-byte-drops | atm-plp1-byte-drops | atm-plp0-packet-drops | atm-plp1-packet-drops)*>

<!ELEMENT atm-cos-queue (atm-cos-queue-parameters | atm-cos-queue-statistics | atm-cos-plp-statistics)*>

<!ELEMENT atm-cos-queue-parameters (cos-forwarding-class-name | cos-queue-number | scheduling-priority | transmit-weight-cells | transmit-weight-percent | epd-threshold | epd-threshold-plp0 | epd-threshold-plp1 | linear-red-drop-profile)*>

```
<!ELEMENT atm-cos-queue-statistics (atm-output-bytes | atm-output-packets |
atm-packet-drops)*>

<!ELEMENT atm-defects (media-alarm)*>

<!ELEMENT atm-e3-framing (#PCDATA)>

<!ELEMENT atm-encapsulation (#PCDATA)>

<!ELEMENT atm-hcs-state (#PCDATA)>

<!ELEMENT atm-information (plcp-defects | atm-defects | plcp-statistics | atm-hcs-state
| atm-loss-of-cell | atm-statistics)*>

<!ELEMENT atm-line-build-out (#PCDATA)>

<!ELEMENT atm-loss-of-cell (#PCDATA)>

<!ELEMENT atm-output-bytes (#PCDATA)>

<!ELEMENT atm-output-packets (#PCDATA)>

<!ELEMENT atm-packet-drops (#PCDATA)>

<!ELEMENT atm-plp0-byte-drops (#PCDATA)>

<!ELEMENT atm-plp0-output-bytes (#PCDATA)>

<!ELEMENT atm-plp0-output-packets (#PCDATA)>

<!ELEMENT atm-plp0-packet-drops (#PCDATA)>

<!ELEMENT atm-plp1-byte-drops (#PCDATA)>

<!ELEMENT atm-plp1-output-bytes (#PCDATA)>

<!ELEMENT atm-plp1-output-packets (#PCDATA)>

<!ELEMENT atm-plp1-packet-drops (#PCDATA)>

<!ELEMENT atm-statistics (uncorrectable-hcs-errors | correctable-hcs-errors |
tx-cell-fifo-overruns | rx-cell-fifo-overruns | rx-cell-fifo-underruns | rx-cell-count |
tx-cell-count | tx-idle-cell-count | vc-queue-drops | no-buffers | length-errors | timeouts |
bundle-timeouts | rx-invalid-vcs | bad-crcs | oam-cell-no-buffers)*>

<!ELEMENT atm-tm-cbr EMPTY>

<!ELEMENT atm-tm-rtvbr EMPTY>

<!ELEMENT atm-tm-vbr EMPTY>

<!ELEMENT atu-c-country-code (#PCDATA)>

<!ELEMENT atu-c-vendor-id (#PCDATA)>

<!ELEMENT atu-c-vendor-specific (#PCDATA)>
```

<!ELEMENT atu-r-country-code (#PCDATA)>

<!ELEMENT atu-r-vendor-id (#PCDATA)>

<!ELEMENT atu-r-vendor-specific (#PCDATA)>

<!ELEMENT auto-negotiation (#PCDATA)>

<!ELEMENT auto-reconnect (#PCDATA)>

<!ELEMENT autonegotiation-status (#PCDATA)>

<!ELEMENT backup EMPTY>

<!ELEMENT bad-crcs (#PCDATA)>

<!ELEMENT bad-hardware-length-count (#PCDATA)>

<!ELEMENT bad-packet-length-count (#PCDATA)>

<!ELEMENT bad-protocol-count (#PCDATA)>

<!ELEMENT bad-protocol-length-count (#PCDATA)>

<!ELEMENT bandwidth (#PCDATA)>

<!ELEMENT baud-rate (#PCDATA)>

<!ELEMENT ber-sd (#PCDATA)>

<!ELEMENT ber-sf (#PCDATA)>

<!ELEMENT ber-threshold (ber-sd | ber-sf)*>

<!ELEMENT bipe-count (#PCDATA)>

<!ELEMENT bipe-seconds (#PCDATA)>

<!ELEMENT bit-error-seconds (#PCDATA)>

<!ELEMENT bpdu-error (#PCDATA)>

<!ELEMENT bridge-iff-properties (svlan-ethertype | eth-switching-flags)*>

<!ELEMENT bundle (multilink-frames | network-frames)*>

<!ELEMENT bundle-class (#PCDATA)>

<!ELEMENT bundle-detail (fragments | non-fragments | lfi)*>

<!ELEMENT bundle-timeouts (#PCDATA)>

<!ELEMENT burst (#PCDATA)>

<!ELEMENT call-direction (#PCDATA)>

<!ELEMENT call-duration (#PCDATA)>

```
<!ELEMENT call-idle-timeout (#PCDATA)>

<!ELEMENT call-status (#PCDATA)>

<!ELEMENT callback-wait-period (#PCDATA)>

<!ELEMENT callback-wait-period-elapsed (#PCDATA)>

<!ELEMENT cam-destination-filter-count (#PCDATA)>

<!ELEMENT cam-source-filter-count (#PCDATA)>

<!ELEMENT carrier-transitions (#PCDATA)>

<!ELEMENT cascade-port (#PCDATA)>

<!ELEMENT cds1-information (interface-tx-queue)*>

<!ELEMENT cdvt (#PCDATA)>

<!ELEMENT ce-counter-bytes (#PCDATA)>

<!ELEMENT ce-counter-count (#PCDATA)>

<!ELEMENT ce-counter-name (#PCDATA)>

<!ELEMENT ce-counter-packets (#PCDATA)>

<!ELEMENT ce-excessive-packet-loss-rate-sample-period (#PCDATA)>

<!ELEMENT ce-excessive-packet-loss-rate-threshold (#PCDATA)>

<!ELEMENT ce-idle-pattern (#PCDATA)>

<!ELEMENT ce-jitter-buffer-auto-adjust (#PCDATA)>

<!ELEMENT ce-jitter-buffer-latency (#PCDATA)>

<!ELEMENT ce-jitter-buffer-packets (#PCDATA)>

<!ELEMENT ce-octet-aligned (#PCDATA)>

<!ELEMENT ce-packetization-latency (#PCDATA)>

<!ELEMENT ce-payload-size (#PCDATA)>

<!ELEMENT cell-bundle-size (#PCDATA)>

<!ELEMENT cell-bundle-timeout (#PCDATA)>

<!ELEMENT cell-timeout-count (#PCDATA)>

<!ELEMENT cesopsn-information (ce-packetization-latency | ce-idle-pattern |
ce-jitter-buffer-packets | ce-jitter-buffer-latency | ce-jitter-buffer-auto-adjust |
ce-excessive-packet-loss-rate-sample-period |
ce-excessive-packet-loss-rate-threshold)*>
```

```
<!ELEMENT chap-state (#PCDATA)>

<!ELEMENT chassis-queue-counters (interface-chassis-cos-summary | queue)*>
<!ATTLIST chassis-queue-counters junos:style CDATA #IMPLIED>

<!ELEMENT class (class-info | multilink-frames | network-frames)*>

<!ELEMENT class-detail (class-info | fragments | non-fragments)*>

<!ELEMENT class-info (multilink-class-id)*>

<!ELEMENT clock-mode (#PCDATA)>

<!ELEMENT clock-rate (#PCDATA)>

<!ELEMENT clocking (#PCDATA)>

<!ELEMENT clocking-mode (clock-mode)*>

<!ELEMENT clocking-rate (clock-rate)*>

<!ELEMENT compression-device-name (#PCDATA)>

<!ELEMENT control-memory-error (#PCDATA)>

<!ELEMENT controller (name | admin-status | oper-status)*>

<!ELEMENT copy-tos-to-outer-ip-header (#PCDATA)>

<!ELEMENT correctable-hcs-errors (#PCDATA)>

<!ELEMENT cos-direction (#PCDATA)>

<!ELEMENT cos-forwarding-class-name (#PCDATA)>

<!ELEMENT cos-information (cos-stream-information)*>

<!ELEMENT cos-queue-bandwidth (#PCDATA)>

<!ELEMENT cos-queue-bandwidth-bps (#PCDATA)>

<!ELEMENT cos-queue-bandwidth-bps-remainder (#PCDATA)>

<!ELEMENT cos-queue-bandwidth-remainder (#PCDATA)>

<!ELEMENT cos-queue-buffer (#PCDATA)>

<!ELEMENT cos-queue-buffer-bytes (#PCDATA)>

<!ELEMENT cos-queue-buffer-remainder (#PCDATA)>

<!ELEMENT cos-queue-configuration (cos-queue-number | cos-queue-forwarding-class |
cos-queue-bandwidth | cos-queue-bandwidth-remainder | cos-queue-bandwidth-bps |
cos-queue-bandwidth-bps-remainder | cos-queue-buffer | cos-queue-buffer-remainder |
cos-queue-buffer-bytes | cos-queue-priority | cos-queue-limit)*>
```

<!ELEMENT cos-queue-forwarding-class (#PCDATA)>

<!ELEMENT cos-queue-limit (#PCDATA)>

<!ELEMENT cos-queue-number (#PCDATA)>

<!ELEMENT cos-queue-priority (#PCDATA)>

<!ELEMENT cos-stream-information (cos-direction | cos-queue-configuration)*>

<!ELEMENT crc (#PCDATA)>

<!ELEMENT crtp (crtp-sessions | crtp-statistics)*>

<!ELEMENT crtp-sessions (input-frames | output-frames)*>

<!ELEMENT crtp-statistics (name | input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT ct3-information (interface-tx-queue)*>

<!ELEMENT cts (#PCDATA)>

<!ELEMENT cts-polarity (#PCDATA)>

<!ELEMENT current-differential-delay (#PCDATA)>

<!ELEMENT current-physical-address (#PCDATA)>

<!ELEMENT data-memory-error (#PCDATA)>

<!ELEMENT data-signal (rx-clock)*>

<!ELEMENT dcd (#PCDATA)>

<!ELEMENT dcd-polarity (#PCDATA)>

<!ELEMENT dce-loopback-override (#PCDATA)>

<!ELEMENT dcu-class-bps (#PCDATA)>

<!ELEMENT dcu-class-bytes (#PCDATA)>

<!ELEMENT dcu-class-name (#PCDATA)>

<!ELEMENT dcu-class-packets (#PCDATA)>

<!ELEMENT dcu-class-pps (#PCDATA)>

<!ELEMENT deactivation-delay (#PCDATA)>

<!ELEMENT deactivation-delay-elapsed (#PCDATA)>

<!ELEMENT default-vlan-id (#PCDATA)>

<!ELEMENT demux-inet-prefix (#PCDATA)>

```
<!ELEMENT demux-inet-prefix-count (#PCDATA)>

<!ELEMENT demux-inet-prefix-type (#PCDATA)>

<!ELEMENT demux-inet6-prefix (#PCDATA)>

<!ELEMENT demux-inet6-prefix-count (#PCDATA)>

<!ELEMENT demux-inet6-prefix-type (#PCDATA)>

<!ELEMENT demux-information (demux-interface)*>

<!ELEMENT demux-interface (demux-underlying-interface-name |
demux-underlying-interface-index | demux-inet-prefix-type | demux-inet-prefix-count |
demux-inet-prefix | demux-inet6-prefix-type | demux-inet6-prefix-count |
demux-inet6-prefix)*>

<!ELEMENT demux-table-type (#PCDATA)>

<!ELEMENT demux-underlying-interface-index (#PCDATA)>

<!ELEMENT demux-underlying-interface-name (#PCDATA)>

<!ELEMENT denied-count (#PCDATA)>

<!ELEMENT description (#PCDATA)>

<!ELEMENT destination-class (dcu-class-name | dcu-class-packets | dcu-class-bytes |
dcu-class-pps | dcu-class-bps)*>

<!ELEMENT destination-class-statistics (destination-class)*>

<!ELEMENT destination-mask (#PCDATA)>

<!ELEMENT destination-slot (#PCDATA)>

<!ELEMENT dial-string (#PCDATA)>

<!ELEMENT dial-string-list (dial-string)*>
<!ATTLIST dial-string-list junos:style CDATA #IMPLIED>

<!ELEMENT dialer-information (dialer-interface | dialer-time-to-disconnect)*>

<!ELEMENT dialer-interface (dialer-interface-name | dialer-interface-state |
dialer-interface-flags | pool-id | primary-interface | dial-string-list | sub-interface-list |
watch-list | activation-delay | deactivation-delay | activation-delay-elapsed |
deactivation-delay-elapsed | call-idle-timeout | initial-route-check | redial-delay |
callback-wait-period | callback-wait-period-elapsed | load-threshold | load-interval)*>

<!ELEMENT dialer-interface-flags (backup | multilink | watchlist | interesting-detected)*>

<!ELEMENT dialer-interface-information (dialer-interface)*>
<!ATTLIST dialer-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT dialer-interface-name (#PCDATA)>

<!ELEMENT dialer-interface-state (#PCDATA)>
```

```
<!ELEMENT dialer-time-to-disconnect (#PCDATA)>

<!ELEMENT disabled-bundle-links (#PCDATA)>

<!ELEMENT dlci (#PCDATA)>

<!ELEMENT dlci-active (#PCDATA)>

<!ELEMENT dlci-inactive (#PCDATA)>

<!ELEMENT dlci-statistics (dlci-active | dlci-inactive)*>

<!ELEMENT down EMPTY>

<!ELEMENT down-count (#PCDATA)>

<!ELEMENT down-hold-time (#PCDATA)>

<!ELEMENT down-time (#PCDATA)>

<!ELEMENT drop-timeout (#PCDATA)>

<!ELEMENT dropped-count (#PCDATA)>

<!ELEMENT ds0-bert-algorithm (#PCDATA)>

<!ELEMENT ds0-bert-bit-count (#PCDATA)>

<!ELEMENT ds0-bert-elapsed (#PCDATA)>

<!ELEMENT ds0-bert-error-bit-count (#PCDATA)>

<!ELEMENT ds0-bert-error-rate (#PCDATA)>

<!ELEMENT ds0-bert-induced-error-rate (#PCDATA)>

<!ELEMENT ds0-bert-information (ds0-bert-period | ds0-bert-elapsed | ds0-bert-status |
ds0-bert-algorithm | ds0-bert-error-rate | ds0-bert-induced-error-rate | ds0-bert-bit-count |
ds0-bert-error-bit-count | ds0-bert-los-status | ds0-bert-los-count |
ds0-bert-los-seconds)*>

<!ELEMENT ds0-bert-los-count (#PCDATA)>

<!ELEMENT ds0-bert-los-seconds (#PCDATA)>

<!ELEMENT ds0-bert-los-status (#PCDATA)>

<!ELEMENT ds0-bert-period (#PCDATA)>

<!ELEMENT ds0-bert-status (#PCDATA)>

<!ELEMENT ds0-byte-encoding (#PCDATA)>

<!ELEMENT ds0-data-inversion (#PCDATA)>

<!ELEMENT ds1-alarm-ais EMPTY>
```

```
<!ELEMENT ds1-alarm-crc-major EMPTY>

<!ELEMENT ds1-alarm-crc-minor EMPTY>

<!ELEMENT ds1-alarm-lof EMPTY>

<!ELEMENT ds1-alarm-los EMPTY>

<!ELEMENT ds1-alarm-ylw EMPTY>

<!ELEMENT ds1-bert-algorithm (#PCDATA)>

<!ELEMENT ds1-bert-bit-count (#PCDATA)>

<!ELEMENT ds1-bert-elapsed (#PCDATA)>

<!ELEMENT ds1-bert-error-bit-count (#PCDATA)>

<!ELEMENT ds1-bert-error-rate (#PCDATA)>

<!ELEMENT ds1-bert-induced-error-rate (#PCDATA)>

<!ELEMENT ds1-bert-information (ds1-bert-period | ds1-bert-elapsed | ds1-bert-status |
ds1-bert-algorithm | ds1-bert-error-rate | ds1-bert-induced-error-rate | ds1-bert-bit-count |
ds1-bert-error-bit-count | ds1-bert-los-status | ds1-bert-los-count |
ds1-bert-los-seconds)*>

<!ELEMENT ds1-bert-los-count (#PCDATA)>

<!ELEMENT ds1-bert-los-seconds (#PCDATA)>

<!ELEMENT ds1-bert-los-status (#PCDATA)>

<!ELEMENT ds1-bert-period (#PCDATA)>

<!ELEMENT ds1-bert-status (#PCDATA)>

<!ELEMENT ds1-buildout (#PCDATA)>

<!ELEMENT ds1-byte-encoding (#PCDATA)>

<!ELEMENT ds1-crc-alarm-threshold (ds1-crc-alarm-threshold-major |
ds1-crc-alarm-threshold-minor)*>

<!ELEMENT ds1-crc-alarm-threshold-major (#PCDATA)>

<!ELEMENT ds1-crc-alarm-threshold-minor (#PCDATA)>

<!ELEMENT ds1-data-inversion (#PCDATA)>

<!ELEMENT ds1-framing (#PCDATA)>

<!ELEMENT ds1-line-encoding (#PCDATA)>

<!ELEMENT ds1-timeslots (#PCDATA)>
```

<!ELEMENT ds3-alarm-ais EMPTY>

<!ELEMENT ds3-alarm-exz EMPTY>

<!ELEMENT ds3-alarm-ferf EMPTY>

<!ELEMENT ds3-alarm-idle EMPTY>

<!ELEMENT ds3-alarm-lcv EMPTY>

<!ELEMENT ds3-alarm-lof EMPTY>

<!ELEMENT ds3-alarm-los EMPTY>

<!ELEMENT ds3-alarm-pll EMPTY>

<!ELEMENT ds3-alarm-ylw EMPTY>

<!ELEMENT ds3-bert-algorithm (#PCDATA)>

<!ELEMENT ds3-bert-bit-count (#PCDATA)>

<!ELEMENT ds3-bert-bit-count-overflow (#PCDATA)>

<!ELEMENT ds3-bert-elapsed (#PCDATA)>

<!ELEMENT ds3-bert-error-bit-count (#PCDATA)>

<!ELEMENT ds3-bert-error-bit-count-overflow (#PCDATA)>

<!ELEMENT ds3-bert-error-rate (#PCDATA)>

<!ELEMENT ds3-bert-induced-error-rate (#PCDATA)>

<!ELEMENT ds3-bert-information (ds3-bert-period | ds3-bert-elapsed | ds3-bert-status | ds3-bert-algorithm | ds3-bert-error-rate | ds3-bert-induced-error-rate | ds3-bert-bit-count | ds3-bert-bit-count-overflow | ds3-bert-error-bit-count | ds3-bert-error-bit-count-overflow | ds3-bert-los-status | ds3-bert-los-count | ds3-bert-los-seconds)*>

<!ELEMENT ds3-bert-los-count (#PCDATA)>

<!ELEMENT ds3-bert-los-seconds (#PCDATA)>

<!ELEMENT ds3-bert-los-status (#PCDATA)>

<!ELEMENT ds3-bert-period (#PCDATA)>

<!ELEMENT ds3-bert-status (#PCDATA)>

<!ELEMENT ds3-long-buildout (#PCDATA)>

<!ELEMENT ds3-mode (#PCDATA)>

<!ELEMENT dsl-alarm-far-locdi EMPTY>

<!ELEMENT dsl-alarm-far-locdni EMPTY>

<!ELEMENT dsl-alarm-far-lof EMPTY>

<!ELEMENT dsl-alarm-far-los EMPTY>

<!ELEMENT dsl-alarm-locdi EMPTY>

<!ELEMENT dsl-alarm-locdni EMPTY>

<!ELEMENT dsl-alarm-lof EMPTY>

<!ELEMENT dsl-alarm-lom EMPTY>

<!ELEMENT dsl-alarm-lop EMPTY>

<!ELEMENT dsl-alarm-los EMPTY>

<!ELEMENT dsl-chipset-information (atu-r-vendor-id | atu-c-vendor-id | atu-r-vendor-specific | atu-c-vendor-specific | atu-r-country-code | atu-c-country-code)*>

<!ELEMENT dsl-information (dsl-line-status | dsl-line-operating-mode | dsl-line-type | adsl-annex-type | adsl-last-fail-code | adsl-subfunction | adsl-seconds-in-showtime | dsl-chipset-information | dsl-statistics)*>

<!ELEMENT dsl-line-operating-mode (#PCDATA)>

<!ELEMENT dsl-line-status (#PCDATA)>

<!ELEMENT dsl-line-type (#PCDATA)>

<!ELEMENT dsl-statistics (near-end-attainable-bitrate | far-end-attainable-bitrate | near-end-attenuation | far-end-attenuation | near-end-capacity-used | far-end-capacity-used | near-end-noise-margin | far-end-noise-margin | near-end-output-power | far-end-output-power | interleaved-rx-cells | fast-rx-cells | interleaved-tx-cells | fast-tx-cells | near-end-interleaved-bitrate | near-end-fast-bitrate | far-end-interleaved-bitrate | far-end-fast-bitrate | near-end-interleaved-crc | near-end-fast-crc | far-end-interleaved-crc | far-end-fast-crc | near-end-interleaved-hec | near-end-fast-hec | far-end-interleaved-hec | far-end-fast-hec | near-end-interleaved-fec | near-end-fast-fec | far-end-interleaved-fec | far-end-fast-fec | near-end-interleaved-rx-cells | near-end-fast-rx-cells | near-end-interleaved-tx-cells | near-end-fast-tx-cells)*>

<!ELEMENT dsr (#PCDATA)>

<!ELEMENT dsr-polarity (#PCDATA)>

<!ELEMENT dsu-compatibility-mode (#PCDATA)>

<!ELEMENT dsu-information (dsu-compatibility-mode | dsu-scrambler | dsu-subrate | feac-loopback | feac-response | feac-count)*>

<!ELEMENT dsu-scrambler (#PCDATA)>

<!ELEMENT dsu-subrate (#PCDATA)>

<!ELEMENT dtr (#PCDATA)>

<!ELEMENT dtr-circuit (dtr-circuit-mode)*>

<!ELEMENT dtr-circuit-mode (#PCDATA)>

<!ELEMENT dtr-polarity (#PCDATA)>

<!ELEMENT duplex (#PCDATA)>

<!ELEMENT dynamic-interface-bandwidth (#PCDATA)>

<!ELEMENT e3-bert-algorithm (#PCDATA)>

<!ELEMENT e3-bert-bit-count (#PCDATA)>

<!ELEMENT e3-bert-bit-count-overflow (#PCDATA)>

<!ELEMENT e3-bert-elapsed (#PCDATA)>

<!ELEMENT e3-bert-error-bit-count (#PCDATA)>

<!ELEMENT e3-bert-error-bit-count-overflow (#PCDATA)>

<!ELEMENT e3-bert-error-rate (#PCDATA)>

<!ELEMENT e3-bert-induced-error-rate (#PCDATA)>

<!ELEMENT e3-bert-information (e3-bert-period | e3-bert-elapsed | e3-bert-status | e3-bert-algorithm | e3-bert-error-rate | e3-bert-induced-error-rate | e3-bert-bit-count | e3-bert-bit-count-overflow | e3-bert-error-bit-count | e3-bert-error-bit-count-overflow | e3-bert-los-status | e3-bert-los-count | e3-bert-los-seconds)*>

<!ELEMENT e3-bert-los-count (#PCDATA)>

<!ELEMENT e3-bert-los-seconds (#PCDATA)>

<!ELEMENT e3-bert-los-status (#PCDATA)>

<!ELEMENT e3-bert-period (#PCDATA)>

<!ELEMENT e3-bert-status (#PCDATA)>

<!ELEMENT e3-data-inversion (#PCDATA)>

<!ELEMENT e3-framing (#PCDATA)>

<!ELEMENT eia530-control-signal (mode | to-dce | from-dce | to-dte | from-dte)*>

<!ELEMENT eia530-signal-polarity (dtr-polarity | rts-polarity | dcd-polarity | dsr-polarity | cts-polarity | tm-polarity)*>

<!ELEMENT encapsulation (#PCDATA)>

<!ELEMENT end-vci (#PCDATA)>

<!ELEMENT epd-threshold (#PCDATA)>

<!ELEMENT epd-threshold-plp0 (#PCDATA)>

<!ELEMENT epd-threshold-plp1 (#PCDATA)>

```
<!ELEMENT error-code (#PCDATA)>

<!ELEMENT errored-blocks-seconds (#PCDATA)>

<!ELEMENT es-ifd-stats (total-anti-replay-count | total-authentication-failure-count)*>

<!ELEMENT es-sa-fail-count (#PCDATA)>

<!ELEMENT es-sa-name (#PCDATA)>

<!ELEMENT es-sa-recv-seq-num (#PCDATA)>

<!ELEMENT es-sa-xmt-seq-num (#PCDATA)>

<!ELEMENT eth-switching-flags (eth-switching-flags-value | no-mac-learning-status)*>

<!ELEMENT eth-switching-flags-value (#PCDATA)>

<!ELEMENT ether-policer-list (ether-policer-record)*>

<!ELEMENT ether-policer-record (policer-type | out-of-spec-bytes | out-of-spec-frames)*>

<!ELEMENT ethernet-alarm-lcdp EMPTY>

<!ELEMENT ethernet-alarm-link-down EMPTY>

<!ELEMENT ethernet-autonegotiation (autonegotiation-status | link-partner-status |
link-partner-reason | link-partner-duplexity | link-partner-speed | flow-control |
local-info)*>

<!ELEMENT ethernet-filter-statistics (input-packets | input-reject-count |
input-reject-destination-address-count | input-reject-source-address-count |
output-packets | output-packet-pad-count | output-packet-error-count |
cam-destination-filter-count | cam-source-filter-count)*>
<!ATTLIST ethernet-filter-statistics junos:style CDATA #IMPLIED>

<!ELEMENT ethernet-mac-statistics (input-bytes | input-packets | input-unicasts |
input-broadcasts | input-multicasts | input-crc-errors | input-fifo-errors |
input-mac-control-frames | input-mac-pause-frames | input-oversized-frames |
input-undersized-frames | input-jabber-frames | input-fragment-frames |
input-vlan-tagged-frames | input-code-violations | input-policer-frame-drops |
input-policer-byte-drops | output-bytes | output-packets | output-unicasts |
output-broadcasts | output-multicasts | output-crc-errors | output-fifo-errors |
output-mac-control-frames | output-mac-pause-frames)*>
<!ATTLIST ethernet-mac-statistics junos:style CDATA #IMPLIED>

<!ELEMENT ethernet-pcs-statistics (bit-error-seconds | errored-blocks-seconds)*>
<!ATTLIST ethernet-pcs-statistics junos:style CDATA #IMPLIED>

<!ELEMENT far-end-attainable-bitrate (#PCDATA)>

<!ELEMENT far-end-attenuation (#PCDATA)>

<!ELEMENT far-end-capacity-used (#PCDATA)>

<!ELEMENT far-end-fast-bitrate (#PCDATA)>
```

```
<!ELEMENT far-end-fast-crc (#PCDATA)>

<!ELEMENT far-end-fast-fec (#PCDATA)>

<!ELEMENT far-end-fast-hec (#PCDATA)>

<!ELEMENT far-end-interleaved-bitrate (#PCDATA)>

<!ELEMENT far-end-interleaved-crc (#PCDATA)>

<!ELEMENT far-end-interleaved-fec (#PCDATA)>

<!ELEMENT far-end-interleaved-hec (#PCDATA)>

<!ELEMENT far-end-noise-margin (#PCDATA)>

<!ELEMENT far-end-output-power (#PCDATA)>

<!ELEMENT fast-rx-cells (#PCDATA)>

<!ELEMENT fast-tx-cells (#PCDATA)>

<!ELEMENT feac-count (#PCDATA)>

<!ELEMENT feac-loopback (#PCDATA)>

<!ELEMENT feac-response (#PCDATA)>

<!ELEMENT febe-count (#PCDATA)>

<!ELEMENT febe-seconds (#PCDATA)>

<!ELEMENT fec-corrected-error-ratio (#PCDATA)>

<!ELEMENT fec-corrected-errors (#PCDATA)>

<!ELEMENT fec-mode (#PCDATA)>

<!ELEMENT ferr-count (#PCDATA)>

<!ELEMENT ferr-seconds (#PCDATA)>

<!ELEMENT filter-family (#PCDATA)>

<!ELEMENT filter-information (filter-family | filter-input | filter-input-precedence |
filter-output | filter-output-precedence)*>

<!ELEMENT filter-input (#PCDATA)>

<!ELEMENT filter-input-precedence (#PCDATA)>

<!ELEMENT filter-output (#PCDATA)>

<!ELEMENT filter-output-precedence (#PCDATA)>

<!ELEMENT flow-control (#PCDATA)>
```

<!ELEMENT forwarding-class-name (#PCDATA)>

<!ELEMENT fpc-number (#PCDATA)>

<!ELEMENT fragment-buffer-overflow (#PCDATA)>

<!ELEMENT fragment-drop-bytes (#PCDATA)>

<!ELEMENT fragment-drops (#PCDATA)>

<!ELEMENT fragment-threshold (#PCDATA)>

<!ELEMENT fragment-timeout (#PCDATA)>

<!ELEMENT fragments (input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT framing-errors (#PCDATA)>

<!ELEMENT frequency (#PCDATA)>

<!ELEMENT from-dce (dtr | rts | cts | dcd | dsr | tm)*>

<!ELEMENT from-dte (dtr | rts | cts | dcd | dsr | tm)*>

<!ELEMENT generation (#PCDATA)>

<!ELEMENT generic-value (#PCDATA)>

<!ELEMENT global-fpc-number (#PCDATA)>

<!ELEMENT hardware-physical-address (#PCDATA)>

<!ELEMENT hardware-token (#PCDATA)>

<!ELEMENT hdlc-giant-threshold (#PCDATA)>

<!ELEMENT hdlc-information (hdlc-rx-bucket-state | hdlc-rx-bit-rate | hdlc-rx-threshold | hdlc-tx-bit-rate | hdlc-tx-bucket-state | hdlc-tx-threshold | hdlc-giant-threshold | hdlc-runt-threshold)*>

<!ELEMENT hdlc-runt-threshold (#PCDATA)>

<!ELEMENT hdlc-rx-bit-rate (#PCDATA)>

<!ELEMENT hdlc-rx-bucket-state (#PCDATA)>

<!ELEMENT hdlc-rx-threshold (#PCDATA)>

<!ELEMENT hdlc-tx-bit-rate (#PCDATA)>

<!ELEMENT hdlc-tx-bucket-state (#PCDATA)>

<!ELEMENT hdlc-tx-threshold (#PCDATA)>

<!ELEMENT high-red (#PCDATA)>

```
<!ELEMENT hs-link-crc-errors (#PCDATA)>

<!ELEMENT hs-link-fifo-overflows (#PCDATA)>

<!ELEMENT hs-link-fifo-underflows (#PCDATA)>

<!ELEMENT idle-cycle-flag (#PCDATA)>

<!ELEMENT idle-timeout (#PCDATA)>

<!ELEMENT if-auto-mdix (#PCDATA)>

<!ELEMENT if-auto-negotiation (#PCDATA)>

<!ELEMENT if-config-flags (iff-none | iff-hardware-down | iff-down | iff-up | iff-admin-down |
iff-admin-up | iff-link-down | iff-device-down | iff-point-to-point | iff-point-to-multipoint |
plp-to-clp | iff-multiaccess | iff-change | iff-inverse-arp | iff-no-multicast | iff-multicast |
iff-promiscuous | iff-all-multicast | iff-snmp-traps | iff-rx-passive | iff-tx-passive |
iff-ccc-down | iff-clear-df | iff-tunnel-reassembly | iff-acfc | iff-pfc | iff-rdd | iff-looped |
internal-flags)*>

<!ELEMENT if-device-flags (ifdf-none | ifdf-present | ifdf-running | ifdf-duplex | ifdf-down |
ifdf-no-carrier | ifdf-error1 | ifdf-error2 | ifdf-no-multicast | ifdf-loopback | ifdf-quench |
ifdf-recv-all-multicasts | ifdf-promiscuous | ifdf-link-layer-down | ifdf-loop-detected |
ifdf-pfe-gone | generic-value)*>

<!ELEMENT if-flow-control (#PCDATA)>

<!ELEMENT if-media-flags (ifmf-none | ifmf-autoselect | ifmf-scheduler |
ifmf-shared-scheduler | ifmf-keepalives | ifmf-no-keepalives | ifmf-give-up | ifmf-loose-lcp
| ifmf-loose-ncp | ifmf-ppp-acfc | ifmf-ppp-pfc | ifmf-loose-lmi | ifmf-dce | ifmf-dte |
generic-value)*>

<!ELEMENT if-remote-fault (#PCDATA)>

<!ELEMENT if-speed-auto-negotiation (#PCDATA)>

<!ELEMENT if-switchover-last-attempt (#PCDATA)>

<!ELEMENT if-switchover-last-time (#PCDATA)>

<!ELEMENT if-switchover-min-max-avg-time (#PCDATA)>

<!ELEMENT if-switchover-total (#PCDATA)>

<!ELEMENT if-type (#PCDATA)>

<!ELEMENT if-unidirectional (#PCDATA)>

<!ELEMENT ifa-address-pool (#PCDATA)>

<!ELEMENT ifa-broadcast (#PCDATA)>

<!ELEMENT ifa-destination (#PCDATA)>
```

<!ELEMENT ifa-flags (ifaf-none | ifaf-primary | ifaf-preferred | ifaf-master-only | ifaf-down | ifaf-kernel | ifaf-current-default | ifaf-current-preferred | ifaf-current-primary | ifaf-duplicate | ifaf-webauth-http | generic-value)*>

<!ELEMENT ifa-local (#PCDATA)>

<!ELEMENT ifa-primary-dns (#PCDATA)>

<!ELEMENT ifa-primary-nbns (#PCDATA)>

<!ELEMENT ifa-secondary-dns (#PCDATA)>

<!ELEMENT ifa-secondary-nbns (#PCDATA)>

<!ELEMENT ifaf-current-default EMPTY>

<!ELEMENT ifaf-current-preferred EMPTY>

<!ELEMENT ifaf-current-primary EMPTY>

<!ELEMENT ifaf-down EMPTY>

<!ELEMENT ifaf-duplicate EMPTY>

<!ELEMENT ifaf-kernel EMPTY>

<!ELEMENT ifaf-master-only EMPTY>

<!ELEMENT ifaf-none EMPTY>

<!ELEMENT ifaf-preferred EMPTY>

<!ELEMENT ifaf-primary EMPTY>

<!ELEMENT ifaf-webauth-http EMPTY>

<!ELEMENT ifd-cell-bundle-size (#PCDATA)>

<!ELEMENT ifd-cell-bundle-timeout (#PCDATA)>

<!ELEMENT ifdf-down EMPTY>

<!ELEMENT ifdf-duplex EMPTY>

<!ELEMENT ifdf-error1 EMPTY>

<!ELEMENT ifdf-error2 EMPTY>

<!ELEMENT ifdf-link-layer-down EMPTY>

<!ELEMENT ifdf-loop-detected EMPTY>

<!ELEMENT ifdf-loopback EMPTY>

<!ELEMENT ifdf-no-carrier EMPTY>

<!ELEMENT ifdf-no-multicast EMPTY>

```
<!ELEMENT ifdf-none EMPTY>
<!ELEMENT ifdf-pfe-gone EMPTY>
<!ELEMENT ifdf-present EMPTY>
<!ELEMENT ifdf-promiscuous EMPTY>
<!ELEMENT ifdf-quench EMPTY>
<!ELEMENT ifdf-recv-all-multicasts EMPTY>
<!ELEMENT ifdf-running EMPTY>
<!ELEMENT iff-acfc EMPTY>
<!ELEMENT iff-admin-down EMPTY>
<!ELEMENT iff-admin-up EMPTY>
<!ELEMENT iff-all-multicast EMPTY>
<!ELEMENT iff-ccc-down EMPTY>
<!ELEMENT iff-change EMPTY>
<!ELEMENT iff-clear-df EMPTY>
<!ELEMENT iff-device-down EMPTY>
<!ELEMENT iff-down EMPTY>
<!ELEMENT iff-hardware-down EMPTY>
<!ELEMENT iff-inverse-arp EMPTY>
<!ELEMENT iff-link-down EMPTY>
<!ELEMENT iff-looped EMPTY>
<!ELEMENT iff-multiaccess EMPTY>
<!ELEMENT iff-multicast EMPTY>
<!ELEMENT iff-no-multicast EMPTY>
<!ELEMENT iff-none EMPTY>
<!ELEMENT iff-pfc EMPTY>
<!ELEMENT iff-point-to-multipoint EMPTY>
<!ELEMENT iff-point-to-point EMPTY>
<!ELEMENT iff-ppp-flags-acfc EMPTY>
```

<!ELEMENT iff-ppp-flags-pfc EMPTY>

<!ELEMENT iff-promiscuous EMPTY>

<!ELEMENT iff-rdd EMPTY>

<!ELEMENT iff-rx-passive EMPTY>

<!ELEMENT iff-snmp-traps EMPTY>

<!ELEMENT iff-tunnel-reassembly EMPTY>

<!ELEMENT iff-tx-passive EMPTY>

<!ELEMENT iff-up EMPTY>

<!ELEMENT ifff-down EMPTY>

<!ELEMENT ifff-dst-class-usage EMPTY>

<!ELEMENT ifff-func1 EMPTY>

<!ELEMENT ifff-func2 EMPTY>

<!ELEMENT ifff-hard-down EMPTY>

<!ELEMENT ifff-is-primary EMPTY>

<!ELEMENT ifff-mac-validate-loose EMPTY>

<!ELEMENT ifff-mac-validate-strict EMPTY>

<!ELEMENT ifff-mtu-protocol-adj EMPTY>

<!ELEMENT ifff-mtu-user-conf EMPTY>

<!ELEMENT ifff-negotiate-address EMPTY>

<!ELEMENT ifff-no-arp-learn EMPTY>

<!ELEMENT ifff-no-asynch-notification EMPTY>

<!ELEMENT ifff-no-redirects EMPTY>

<!ELEMENT ifff-none EMPTY>

<!ELEMENT ifff-port-mode-trunk EMPTY>

<!ELEMENT ifff-primary EMPTY>

<!ELEMENT ifff-recv-options EMPTY>

<!ELEMENT ifff-recv-ttl-exceeded EMPTY>

<!ELEMENT ifff-redirects EMPTY>

<!ELEMENT ifff-rpf-check EMPTY>

```
<!ELEMENT ifff-rpf-loose-mode EMPTY>
<!ELEMENT ifff-sample-input EMPTY>
<!ELEMENT ifff-sample-output EMPTY>
<!ELEMENT ifff-src-class-input EMPTY>
<!ELEMENT ifff-src-class-output EMPTY>
<!ELEMENT ifff-tcc-inet EMPTY>
<!ELEMENT ifff-tcc-inet6 EMPTY>
<!ELEMENT ifff-tcc-iso EMPTY>
<!ELEMENT ifff-tcc-mpls EMPTY>
<!ELEMENT ifff-unnumbered EMPTY>
<!ELEMENT ifff-up EMPTY>
<!ELEMENT ifmf-autoselect EMPTY>
<!ELEMENT ifmf-dce EMPTY>
<!ELEMENT ifmf-dte EMPTY>
<!ELEMENT ifmf-give-up EMPTY>
<!ELEMENT ifmf-keepalives EMPTY>
<!ELEMENT ifmf-loose-lcp EMPTY>
<!ELEMENT ifmf-loose-lmi EMPTY>
<!ELEMENT ifmf-loose-ncp EMPTY>
<!ELEMENT ifmf-no-keepalives EMPTY>
<!ELEMENT ifmf-none EMPTY>
<!ELEMENT ifmf-ppp-acfc EMPTY>
<!ELEMENT ifmf-ppp-pfc EMPTY>
<!ELEMENT ifmf-scheduler EMPTY>
<!ELEMENT ifmf-shared-scheduler EMPTY>
<!ELEMENT ifvc-active EMPTY>
<!ELEMENT ifvc-ccc-down EMPTY>
<!ELEMENT ifvc-closed EMPTY>
```

<!ELEMENT ifvc-configured EMPTY>

<!ELEMENT ifvc-down EMPTY>

<!ELEMENT ifvc-epd (#PCDATA)>

<!ELEMENT ifvc-epd-plp0 (#PCDATA)>

<!ELEMENT ifvc-epd-plp1 (#PCDATA)>

<!ELEMENT ifvc-flags (ifvc-down | ifvc-none | ifvc-active | ifvc-closed | ifvc-inverse-arp | ifvc-ilmi | ifvc-oam | ifvc-shaping | ifvc-passiveoam | ifvc-multicast | ifvc-ccc-down | ifvc-configured | ifvc-unconfigured | generic-value)*>

<!ELEMENT ifvc-ilmi EMPTY>

<!ELEMENT ifvc-inverse-arp EMPTY>

<!ELEMENT ifvc-multicast EMPTY>

<!ELEMENT ifvc-multipoint-destination (multipoint-address)*>

<!ELEMENT ifvc-none EMPTY>

<!ELEMENT ifvc-oam EMPTY>

<!ELEMENT ifvc-passiveoam EMPTY>

<!ELEMENT ifvc-shaping EMPTY>

<!ELEMENT ifvc-unconfigured EMPTY>

<!ELEMENT ifvc-weight (#PCDATA)>

<!ELEMENT ifvp-active EMPTY>

<!ELEMENT ifvp-closed EMPTY>

<!ELEMENT ifvp-down EMPTY>

<!ELEMENT ifvp-flags (ifvp-down | ifvp-none | ifvp-active | ifvp-closed | ifvp-oam | ifvp-shaping | ifvp-passiveoam | ifvp-tunnel | generic-value)*>

<!ELEMENT ifvp-none EMPTY>

<!ELEMENT ifvp-oam EMPTY>

<!ELEMENT ifvp-passiveoam EMPTY>

<!ELEMENT ifvp-shaping EMPTY>

<!ELEMENT ifvp-tunnel EMPTY>

<!ELEMENT ih-parent (#PCDATA)>

<!ELEMENT illegal-rx-packets (#PCDATA)>

<!ELEMENT ima-alarm-blocked EMPTY>

<!ELEMENT ima-alarm-blocked-fe EMPTY>

<!ELEMENT ima-alarm-config-abort EMPTY>

<!ELEMENT ima-alarm-config-abort-fe EMPTY>

<!ELEMENT ima-alarm-fault EMPTY>

<!ELEMENT ima-alarm-insufficient-links EMPTY>

<!ELEMENT ima-alarm-insufficient-links-fe EMPTY>

<!ELEMENT ima-alarm-lif EMPTY>

<!ELEMENT ima-alarm-lods EMPTY>

<!ELEMENT ima-alarm-rdi EMPTY>

<!ELEMENT ima-alarm-rx-misconnected EMPTY>

<!ELEMENT ima-alarm-rx-unusable-fe EMPTY>

<!ELEMENT ima-alarm-startup-fe EMPTY>

<!ELEMENT ima-alarm-timing-mismatch EMPTY>

<!ELEMENT ima-alarm-tx-misconnected EMPTY>

<!ELEMENT ima-alarm-tx-unusable-fe EMPTY>

<!ELEMENT ima-alarm-version-mismatch EMPTY>

<!ELEMENT ima-differential-delay (#PCDATA)>

<!ELEMENT ima-frame-length (#PCDATA)>

<!ELEMENT ima-frame-sync-alpha (#PCDATA)>

<!ELEMENT ima-frame-sync-beta (#PCDATA)>

<!ELEMENT ima-frame-sync-gamma (#PCDATA)>

<!ELEMENT ima-group-id (#PCDATA)>

<!ELEMENT ima-group-information (media-alarm)*>

<!ELEMENT ima-group-properties (ima-version | ima-frame-length | ima-differential-delay | ima-symmetry | ima-transmit-clock | ima-tx-minimum-links | ima-rx-minimum-links | ima-frame-sync-alpha | ima-frame-sync-beta | ima-frame-sync-gamma | ima-links | ima-test-period | ima-test-elapsed | ima-test-status | ima-test-pattern | ima-test-link | ima-test-result-pattern | ima-test-result-status | ima-test-result-miscon | ima-test-result-mispat)*>

<!ELEMENT ima-link-direction (#PCDATA)>

<!ELEMENT ima-link-information (media-alarm)*>

<!ELEMENT ima-link-properties (ima-group-id | ima-link-direction)*>

<!ELEMENT ima-links (#PCDATA)>

<!ELEMENT ima-rx-minimum-links (#PCDATA)>

<!ELEMENT ima-state (media-type | ima-state-line | ima-state-near-end | ima-state-far-end)*>

<!ELEMENT ima-state-far-end (#PCDATA)>

<!ELEMENT ima-state-line (#PCDATA)>

<!ELEMENT ima-state-near-end (#PCDATA)>

<!ELEMENT ima-symmetry (#PCDATA)>

<!ELEMENT ima-test-elapsed (#PCDATA)>

<!ELEMENT ima-test-link (#PCDATA)>

<!ELEMENT ima-test-pattern (#PCDATA)>

<!ELEMENT ima-test-period (#PCDATA)>

<!ELEMENT ima-test-result-miscon (#PCDATA)>

<!ELEMENT ima-test-result-mispat (#PCDATA)>

<!ELEMENT ima-test-result-pattern (#PCDATA)>

<!ELEMENT ima-test-result-status (#PCDATA)>

<!ELEMENT ima-test-status (#PCDATA)>

<!ELEMENT ima-transmit-clock (#PCDATA)>

<!ELEMENT ima-tx-minimum-links (#PCDATA)>

<!ELEMENT ima-version (#PCDATA)>

<!ELEMENT in-arp-statistics (received-count | transmitted-count | denied-count | operation-not-supported-count | bad-packet-length-count | bad-protocol-count | bad-protocol-length-count | bad-hardware-length-count | dropped-count | last-received | last-transmitted)*>

<!ELEMENT in6-addr-flags (in6-anycast | in6-tentative | in6-duplicate | in6-detached | in6-deprecated | in6-nodad | in6-temporary | in6-autoconf | in6-nopfxmgmt)*>

<!ELEMENT in6-anycast EMPTY>

<!ELEMENT in6-autoconf EMPTY>

<!ELEMENT in6-deprecated EMPTY>

```
<!ELEMENT in6-detached EMPTY>

<!ELEMENT in6-duplicate EMPTY>

<!ELEMENT in6-nodad EMPTY>

<!ELEMENT in6-nopfxmgmt EMPTY>

<!ELEMENT in6-temporary EMPTY>

<!ELEMENT in6-tentative EMPTY>

<!ELEMENT ingress-queue-counters (interface-chassis-cos-summary | queue |
interface-cos-summary | interface-cos-short-summary)*>
<!ATTLIST ingress-queue-counters junos:style CDATA #IMPLIED>

<!ELEMENT ingress-rate-limit (#PCDATA)>

<!ELEMENT ingress-traffic-statistics (input-bytes | input-bps | input-packets | input-pps |
input-drop-bytes | input-drop-packets | input-drop-bps | input-drop-pps)*>
<!ATTLIST ingress-traffic-statistics junos:style CDATA #IMPLIED>

<!ELEMENT init-command-str (#PCDATA)>

<!ELEMENT init-status (#PCDATA)>

<!ELEMENT initial-route-check (#PCDATA)>

<!ELEMENT input-bps (#PCDATA)>

<!ELEMENT input-broadcasts (#PCDATA)>

<!ELEMENT input-bucket-drops (#PCDATA)>

<!ELEMENT input-bytes (#PCDATA)>

<!ELEMENT input-code-violations (#PCDATA)>

<!ELEMENT input-crc-errors (#PCDATA)>

<!ELEMENT input-disabled-bundle (#PCDATA)>

<!ELEMENT input-discards (#PCDATA)>

<!ELEMENT input-drop-bps (#PCDATA)>

<!ELEMENT input-drop-bytes (#PCDATA)>

<!ELEMENT input-drop-packets (#PCDATA)>

<!ELEMENT input-drop-pps (#PCDATA)>

<!ELEMENT input-drops (#PCDATA)>

<!ELEMENT input-error-count (#PCDATA)>

<!ELEMENT input-error-frames (#PCDATA)>
```

<!ELEMENT input-error-list (input-errors | input-drops | invalid-vcs | framing-errors | input-runts | input-giants | input-bucket-drops | input-discards | input-l3-incompletes | input-l2-channel-errors | input-l2-mismatch-timeouts | input-fifo-errors | hs-link-crc-errors | hs-link-fifo-overflows | sram-errors | input-resource-errors)*>

<!ELEMENT input-errors (#PCDATA)>

<!ELEMENT input-fifo-errors (#PCDATA)>

<!ELEMENT input-fps (#PCDATA)>

<!ELEMENT input-fragment-frames (#PCDATA)>

<!ELEMENT input-frames (#PCDATA)>

<!ELEMENT input-giants (#PCDATA)>

<!ELEMENT input-jabber-frames (#PCDATA)>

<!ELEMENT input-l2-channel-errors (#PCDATA)>

<!ELEMENT input-l2-mismatch-timeouts (#PCDATA)>

<!ELEMENT input-l3-incompletes (#PCDATA)>

<!ELEMENT input-mac-control-frames (#PCDATA)>

<!ELEMENT input-mac-pause-frames (#PCDATA)>

<!ELEMENT input-multicasts (#PCDATA)>

<!ELEMENT input-oversized-frames (#PCDATA)>

<!ELEMENT input-packets (#PCDATA)>

<!ELEMENT input-policer-byte-drops (#PCDATA)>

<!ELEMENT input-policer-frame-drops (#PCDATA)>

<!ELEMENT input-pps (#PCDATA)>

<!ELEMENT input-reject-count (#PCDATA)>

<!ELEMENT input-reject-destination-address-count (#PCDATA)>

<!ELEMENT input-reject-source-address-count (#PCDATA)>

<!ELEMENT input-resource-errors (#PCDATA)>

<!ELEMENT input-runts (#PCDATA)>

<!ELEMENT input-undersized-frames (#PCDATA)>

<!ELEMENT input-unicasts (#PCDATA)>

<!ELEMENT input-vlan-tagged-frames (#PCDATA)>

```
<!ELEMENT instant-usage-weight-exponent (#PCDATA)>
<!ATTLIST instant-usage-weight-exponent junos:format CDATA #IMPLIED>

<!ELEMENT interesting-detected EMPTY>

<!ELEMENT interface-address (ifa-flags | generation | ifa-destination | ifa-local |
in6-addr-flags | ifa-broadcast | ifa-primary-dns | ifa-primary-nbns | ifa-secondary-dns |
ifa-secondary-nbns | ifa-address-pool)*>
<!ATTLIST interface-address heading CDATA #IMPLIED>

<!ELEMENT interface-alarms (alarm-not-present | sonet-alarm-lol | sonet-alarm-pll |
sonet-alarm-lof | sonet-alarm-los | sonet-alarm-sef | sonet-alarm-lais | sonet-alarm-pais |
sonet-alarm-lop | sonet-alarm-berr-sd | sonet-alarm-berr-sf | sonet-alarm-lrdi |
sonet-alarm-prdi | sonet-alarm-rei | sonet-alarm-uneq | sonet-alarm-pmis |
sonet-alarm-loc | sonet-alarm-vais | sonet-alarm-vlop | sonet-alarm-vrdi |
sonet-alarm-vuneq | sonet-alarm-vmis | sonet-alarm-vloc | sdh-alarm-lol | sdh-alarm-pll |
sdh-alarm-lof | sdh-alarm-los | sdh-alarm-oof | sdh-alarm-msais | sdh-alarm-hpais |
sdh-alarm-lop | sdh-alarm-berr-sd | sdh-alarm-berr-sf | sdh-alarm-msferf |
sdh-alarm-hpferf | sdh-alarm-hpfebe | sdh-alarm-hpuneq | sdh-alarm-hpplm |
sdh-alarm-loc | sdh-alarm-tuais | sdh-alarm-tulop | sdh-alarm-turdi | sdh-alarm-tuuneq |
sdh-alarm-tumis | sdh-alarm-tuloc | ds3-alarm-pll | ds3-alarm-ais | ds3-alarm-lof |
ds3-alarm-los | ds3-alarm-lcv | ds3-alarm-exz | ds3-alarm-ferf | ds3-alarm-ylw |
ds3-alarm-idle | ds1-alarm-ais | ds1-alarm-lof | ds1-alarm-los | ds1-alarm-ylw |
ds1-alarm-crc-major | ds1-alarm-crc-minor | dsl-alarm-lof | dsl-alarm-los | dsl-alarm-lom |
dsl-alarm-locdi | dsl-alarm-locdni | dsl-alarm-lop | dsl-alarm-far-lof | dsl-alarm-far-los |
dsl-alarm-far-locdi | dsl-alarm-far-locdni | ethernet-alarm-link-down | ethernet-alarm-lcdp |
isdn-alarm-los | isdn-alarm-lof | shdsl-alarm-losd | shdsl-alarm-losw |
shdsl-alarm-line1-losd | shdsl-alarm-line1-losw | shdsl-alarm-line2-losd |
shdsl-alarm-line2-losw | otn-alarm-los | otn-alarm-lof | otn-alarm-lom |
otn-alarm-wavelength-lock | otn-alarm-otu-ais | otn-alarm-otu-bdi | otn-alarm-otu-ttim |
otn-alarm-otu-iae | otn-alarm-otu-sd | otn-alarm-otu-sf | otn-alarm-otu-fec-excessive |
otn-alarm-otu-fec-degraded | otn-alarm-otu-threshold-bbe | otn-alarm-otu-threshold-es |
otn-alarm-otu-threshold-ses | otn-alarm-otu-threshold-uas | otn-alarm-odu-ais |
otn-alarm-odu-oci | otn-alarm-odu-lck | otn-alarm-odu-bdi | otn-alarm-odu-ttim |
otn-alarm-odu-sd | otn-alarm-odu-sf | otn-alarm-odu-rx-aps-change |
otn-alarm-odu-threshold-bbe | otn-alarm-odu-threshold-es | otn-alarm-odu-threshold-ses |
otn-alarm-odu-threshold-uas | otn-alarm-opu-pmi | ima-alarm-startup-fe |
ima-alarm-config-abort | ima-alarm-config-abort-fe | ima-alarm-insufficient-links |
ima-alarm-insufficient-links-fe | ima-alarm-blocked | ima-alarm-blocked-fe |
ima-alarm-timing-mismatch | ima-alarm-version-mismatch | ima-alarm-lif | ima-alarm-lods
| ima-alarm-rdi | ima-alarm-tx-misconnected | ima-alarm-rx-misconnected |
ima-alarm-fault | ima-alarm-tx-unusable-fe | ima-alarm-rx-unusable-fe | generic-value)*>

<!ELEMENT interface-chassis-cos-summary (intf-cos-chassis-num-queues-supported |
intf-cos-chassis-num-queues-in-use)*>

<!ELEMENT interface-cos-short-summary (intf-cos-queue-type |
intf-cos-num-queues-supported | intf-cos-num-queues-in-use)*>

<!ELEMENT interface-cos-summary (intf-cos-forwarding-classes-supported |
intf-cos-forwarding-classes-in-use | intf-cos-queue-type | intf-cos-num-queues-supported |
intf-cos-num-queues-in-use | intf-cos-burst-size-for-ifl)*>

<!ELEMENT interface-filter-information (physical-interface | logical-interface)*>
<!ATTLIST interface-filter-information heading CDATA #IMPLIED>
<!ATTLIST interface-filter-information junos:style CDATA #IMPLIED>
```

```
<!ELEMENT interface-flapped (#PCDATA)>

<!ELEMENT interface-index (#PCDATA)>

<!ELEMENT interface-information (physical-interface | logical-interface | controller |
interface-set)*>
<!ATTLIST interface-information junos:style CDATA #IMPLIED>

<!ELEMENT interface-location-name-information (location-name-information)*>

<!ELEMENT interface-location-slot-information (location-slot-information)*>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-policer-information (physical-interface | logical-interface)*>
<!ATTLIST interface-policer-information heading CDATA #IMPLIED>
<!ATTLIST interface-policer-information junos:style CDATA #IMPLIED>

<!ELEMENT interface-set (name | interface-set-index | interface-set-member-list |
traffic-statistics | interface-set-queue-information)*>
<!ATTLIST interface-set junos:style CDATA #IMPLIED>

<!ELEMENT interface-set-index (#PCDATA)>

<!ELEMENT interface-set-member (#PCDATA)>

<!ELEMENT interface-set-member-list (interface-set-member)*>

<!ELEMENT interface-set-queue-information (queue-counters |
ingress-queue-counters)*>

<!ELEMENT interface-shared-with (#PCDATA)>

<!ELEMENT interface-tx-queue (name | bandwidth | wrr | output-packets | output-bytes |
output-drops | output-drops-bytes | output-errors)*>

<!ELEMENT interleave-fragments (#PCDATA)>

<!ELEMENT interleaved-rx-cells (#PCDATA)>

<!ELEMENT interleaved-tx-cells (#PCDATA)>

<!ELEMENT internal-flags (#PCDATA)>

<!ELEMENT interval (range | media-alarm)*>

<!ELEMENT interval-information (interval)*>

<!ELEMENT intf-cos-burst-size-for-ifl (#PCDATA)>

<!ELEMENT intf-cos-chassis-num-queues-in-use (#PCDATA)>

<!ELEMENT intf-cos-chassis-num-queues-supported (#PCDATA)>

<!ELEMENT intf-cos-forwarding-classes-in-use (#PCDATA)>
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<!ELEMENT intf-cos-forwarding-classes-supported (#PCDATA)>

<!ELEMENT intf-cos-num-queues-in-use (#PCDATA)>

<!ELEMENT intf-cos-num-queues-supported (#PCDATA)>

<!ELEMENT intf-cos-queue-type (#PCDATA)>

<!ELEMENT invalid-vcs (#PCDATA)>

<!ELEMENT ipv6-transit-statistics (input-bytes | output-bytes | input-packets |
output-packets)*>

<!ELEMENT irb-bridge (#PCDATA)>

<!ELEMENT irb-domain (irb-routing-instance | irb-bridge)*>

<!ELEMENT irb-routing-instance (#PCDATA)>

<!ELEMENT isdn-alarm-lof EMPTY>

<!ELEMENT isdn-alarm-los EMPTY>

<!ELEMENT jswitch-port (physical-interface-name | port | admin-state | physical-link |
link-speed | auto-negotiation | link-duplexity | port-mtu | ethernet-mac-statistics |
ethernet-autonegotiation | vlan-id | default-vlan-id | cascade-port)*>

<!ELEMENT jswitch-port-information (jswitch-port)*>
<!ATTLIST jswitch-port-information junos:style CDATA #IMPLIED>

<!ELEMENT keepalive-config (keepalive-interval | keepalive-up-count |
keepalive-down-count)*>

<!ELEMENT keepalive-down-count (#PCDATA)>

<!ELEMENT keepalive-input-count (#PCDATA)>

<!ELEMENT keepalive-input-time (#PCDATA)>

<!ELEMENT keepalive-interval (#PCDATA)>

<!ELEMENT keepalive-lmi-descriptor (#PCDATA)>

<!ELEMENT keepalive-output-count (#PCDATA)>

<!ELEMENT keepalive-output-time (#PCDATA)>

<!ELEMENT keepalive-statistics (keepalive-lmi-descriptor | keepalive-input-count |
keepalive-input-time | keepalive-output-count | keepalive-output-time)*>
<!ATTLIST keepalive-statistics junos:style CDATA #IMPLIED>

<!ELEMENT keepalive-up-count (#PCDATA)>

<!ELEMENT l2circuit-info (cell-bundle-size | cell-bundle-timeout | cell-timeout-count |
out-of-sequence)*>

<!ELEMENT l2circuit-mode (#PCDATA)>
```

<!ELEMENT l2pt-error (#PCDATA)>

<!ELEMENT lacp-activity (#PCDATA)>

<!ELEMENT lacp-aggregation (#PCDATA)>

<!ELEMENT lacp-collecting (#PCDATA)>

<!ELEMENT lacp-defaulted (#PCDATA)>

<!ELEMENT lacp-distributing (#PCDATA)>

<!ELEMENT lacp-expired (#PCDATA)>

<!ELEMENT lacp-mux-state (#PCDATA)>

<!ELEMENT lacp-port-key (#PCDATA)>

<!ELEMENT lacp-port-number (#PCDATA)>

<!ELEMENT lacp-port-priority (#PCDATA)>

<!ELEMENT lacp-receive-state (#PCDATA)>

<!ELEMENT lacp-role (#PCDATA)>

<!ELEMENT lacp-rx-packets (#PCDATA)>

<!ELEMENT lacp-synchronization (#PCDATA)>

<!ELEMENT lacp-sys-priority (#PCDATA)>

<!ELEMENT lacp-system-id (#PCDATA)>

<!ELEMENT lacp-timeout (#PCDATA)>

<!ELEMENT lacp-transmit-state (#PCDATA)>

<!ELEMENT lacp-tx-packets (#PCDATA)>

<!ELEMENT lag-bundle (input-packets | input-pps | input-bytes | input-bps | output-packets | output-pps | output-bytes | output-bps)*>

<!ELEMENT lag-lacp-info (name | lacp-role | lacp-sys-priority | lacp-system-id | lacp-port-priority | lacp-port-number | lacp-port-key)*>

<!ELEMENT lag-lacp-protocol (name | lacp-receive-state | lacp-transmit-state | lacp-mux-state)*>

<!ELEMENT lag-lacp-state (name | lacp-role | lacp-expired | lacp-defaulted | lacp-distributing | lacp-collecting | lacp-synchronization | lacp-aggregation | lacp-timeout | lacp-activity)*>

<!ELEMENT lag-lacp-statistics (name | lacp-rx-packets | lacp-tx-packets | unknown-rx-packets | illegal-rx-packets)*>

<!ELEMENT lag-link (name | down | input-packets | input-pps | input-bytes | input-bps | output-packets | output-pps | output-bytes | output-bps)*>

<!ELEMENT lag-marker (name | marker-rx-packets | marker-response-tx-packets | unknown-rx-packets | illegal-rx-packets)*>

<!ELEMENT lag-traffic-statistics (lag-bundle | lag-link | lag-marker | lag-lacp-statistics | lag-lacp-info | lag-lacp-state | lag-lacp-protocol)*>

<!ELEMENT lane-index (#PCDATA)>

<!ELEMENT laser-bias-current (#PCDATA)>

<!ELEMENT laser-bias-current-alarm (#PCDATA)>

<!ELEMENT laser-bias-current-high-alarm (#PCDATA)>

<!ELEMENT laser-bias-current-high-alarm-threshold (#PCDATA)>

<!ELEMENT laser-bias-current-high-warn (#PCDATA)>

<!ELEMENT laser-bias-current-high-warn-threshold (#PCDATA)>

<!ELEMENT laser-bias-current-low-alarm (#PCDATA)>

<!ELEMENT laser-bias-current-low-alarm-threshold (#PCDATA)>

<!ELEMENT laser-bias-current-low-warn (#PCDATA)>

<!ELEMENT laser-bias-current-low-warn-threshold (#PCDATA)>

<!ELEMENT laser-bias-current-not-available (#PCDATA)>

<!ELEMENT laser-end-of-life-alarm (#PCDATA)>

<!ELEMENT laser-output-power (#PCDATA)>

<!ELEMENT laser-output-power-dbm (#PCDATA)>

<!ELEMENT laser-power-alarm (#PCDATA)>

<!ELEMENT laser-rx-optical-power (#PCDATA)>

<!ELEMENT laser-rx-optical-power-dbm (#PCDATA)>

<!ELEMENT laser-rx-power-high-alarm (#PCDATA)>

<!ELEMENT laser-rx-power-high-alarm-threshold (#PCDATA)>

<!ELEMENT laser-rx-power-high-alarm-threshold-dbm (#PCDATA)>

<!ELEMENT laser-rx-power-high-warn (#PCDATA)>

<!ELEMENT laser-rx-power-high-warn-threshold (#PCDATA)>

<!ELEMENT laser-rx-power-high-warn-threshold-dbm (#PCDATA)>

<!ELEMENT laser-rx-power-low-alarm (#PCDATA)>

<!ELEMENT laser-rx-power-low-alarm-threshold (#PCDATA)>

<!ELEMENT laser-rx-power-low-alarm-threshold-dbm (#PCDATA)>

<!ELEMENT laser-rx-power-low-warn (#PCDATA)>

<!ELEMENT laser-rx-power-low-warn-threshold (#PCDATA)>

<!ELEMENT laser-rx-power-low-warn-threshold-dbm (#PCDATA)>

<!ELEMENT laser-rx-power-not-available (#PCDATA)>

<!ELEMENT laser-tx-power-high-alarm (#PCDATA)>

<!ELEMENT laser-tx-power-high-alarm-threshold (#PCDATA)>

<!ELEMENT laser-tx-power-high-alarm-threshold-dbm (#PCDATA)>

<!ELEMENT laser-tx-power-high-warn (#PCDATA)>

<!ELEMENT laser-tx-power-high-warn-threshold (#PCDATA)>

<!ELEMENT laser-tx-power-high-warn-threshold-dbm (#PCDATA)>

<!ELEMENT laser-tx-power-low-alarm (#PCDATA)>

<!ELEMENT laser-tx-power-low-alarm-threshold (#PCDATA)>

<!ELEMENT laser-tx-power-low-alarm-threshold-dbm (#PCDATA)>

<!ELEMENT laser-tx-power-low-warn (#PCDATA)>

<!ELEMENT laser-tx-power-low-warn-threshold (#PCDATA)>

<!ELEMENT laser-tx-power-low-warn-threshold-dbm (#PCDATA)>

<!ELEMENT laser-tx-power-not-available (#PCDATA)>

<!ELEMENT laser-wavelength-alarm (#PCDATA)>

<!ELEMENT last-down-time (#PCDATA)>

<!ELEMENT last-received (#PCDATA)>

<!ELEMENT last-transmitted (#PCDATA)>

<!ELEMENT layer2-input-policer (#PCDATA)>

<!ELEMENT layer2-input-policer-information (layer2-input-policer)*>

<!ELEMENT layer2-input-policer-statistics (policer-low-frames |
policer-medium-low-frames | policer-medium-high-frames | policer-high-frames |
policer-dropped-frames)*>

<!ELEMENT layer2-output-policer (#PCDATA)>

<!ELEMENT layer2-output-policer-information (layer2-output-policer)*>

<!ELEMENT layer2-output-policer-statistics (policer-low-frames | policer-medium-low-frames | policer-medium-high-frames | policer-high-frames | policer-dropped-frames)*>

<!ELEMENT lcc-number (#PCDATA)>

<!ELEMENT lcp-restart-timer (#PCDATA)>

<!ELEMENT lcp-state (#PCDATA)>

<!ELEMENT length-errors (#PCDATA)>

<!ELEMENT lfi (input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT line-protocol (line-protocol-mode)*>

<!ELEMENT line-protocol-mode (#PCDATA)>

<!ELEMENT linear-red-drop-profile (queue-depth | low-red | high-red | max-low-red | max-high-red)*>

<!ELEMENT link (name | down | link-uptime | input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT link-address (#PCDATA)>

<!ELEMENT link-duplexity (#PCDATA)>

<!ELEMENT link-entry (link-id | active-alarms | active-defects | sonet-errors | sonet-physical-information | sonet-section-information | sonet-line-information | sonet-path-information | sonet-payload-pointer-information | sonet-payload-pointer-curptr | sonet-payload-pointer-ptrinc-count | sonet-payload-pointer-ptrdec-count | sonet-payload-pointer-newptr-ndf-count | sonet-vt-information | sonet-rx-overhead | sonet-tx-overhead | sonet-rx-path-trace | sonet-tx-path-trace | optics-diagnostics)*>

<!ELEMENT link-id (#PCDATA)>

<!ELEMENT link-layer-overhead (#PCDATA)>

<!ELEMENT link-level-type (#PCDATA)>

<!ELEMENT link-mode (#PCDATA)>

<!ELEMENT link-partner-duplexity (#PCDATA)>

<!ELEMENT link-partner-reason (#PCDATA)>

<!ELEMENT link-partner-speed (#PCDATA)>

<!ELEMENT link-partner-status (#PCDATA)>

<!ELEMENT link-speed (#PCDATA)>

<!ELEMENT link-type (#PCDATA)>

<!ELEMENT link-uptime (#PCDATA)>

<!ELEMENT links (link-entry)*>

<!ELEMENT lip-ack-retries (#PCDATA)>

<!ELEMENT lip-ack-timer (#PCDATA)>

<!ELEMENT lip-header-string (#PCDATA)>

<!ELEMENT lip-hello-timer (#PCDATA)>

<!ELEMENT lmi-asynchronous-updates-received (#PCDATA)>

<!ELEMENT lmi-dce-config (lmi-type | lmi-n392dce | lmi-n393dce | lmi-t392dce)*>

<!ELEMENT lmi-dte-config (lmi-type | lmi-n391dte | lmi-n392dte | lmi-n393dte | lmi-t391dte)*>

<!ELEMENT lmi-enquiries-received (#PCDATA)>

<!ELEMENT lmi-enquiries-sent (#PCDATA)>

<!ELEMENT lmi-enquiry-responses-received (#PCDATA)>

<!ELEMENT lmi-enquiry-responses-sent (#PCDATA)>

<!ELEMENT lmi-full-enquiries-received (#PCDATA)>

<!ELEMENT lmi-full-enquiries-sent (#PCDATA)>

<!ELEMENT lmi-full-enquiry-responses-received (#PCDATA)>

<!ELEMENT lmi-full-enquiry-responses-sent (#PCDATA)>

<!ELEMENT lmi-keepalive-responses-timeout (#PCDATA)>

<!ELEMENT lmi-n391dte (#PCDATA)>

<!ELEMENT lmi-n392dce (#PCDATA)>

<!ELEMENT lmi-n392dte (#PCDATA)>

<!ELEMENT lmi-n393dce (#PCDATA)>

<!ELEMENT lmi-n393dte (#PCDATA)>

<!ELEMENT lmi-out-of-sequence (#PCDATA)>

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<!ELEMENT lmi-statistics (lmi-statistics-dte-descriptor | lmi-enquiries-sent |
lmi-full-enquiries-sent | lmi-enquiry-responses-received |
lmi-full-enquiry-responses-received | lmi-statistics-dce-descriptor | lmi-enquiries-received
| lmi-full-enquiries-received | lmi-enquiry-responses-sent | lmi-full-enquiry-responses-sent
| lmi-statistics-common-descriptor | lmi-unknown-messages-received |
lmi-asynchronous-updates-received | lmi-out-of-sequence |
lmi-keepalive-responses-timeout)*>

<!ELEMENT lmi-statistics-common-descriptor (#PCDATA)>

<!ELEMENT lmi-statistics-dce-descriptor (#PCDATA)>

<!ELEMENT lmi-statistics-dte-descriptor (#PCDATA)>

<!ELEMENT lmi-t391dte (#PCDATA)>

<!ELEMENT lmi-t392dce (#PCDATA)>

<!ELEMENT lmi-type (#PCDATA)>

<!ELEMENT lmi-unknown-messages-received (#PCDATA)>

<!ELEMENT load-interval (#PCDATA)>

<!ELEMENT load-threshold (#PCDATA)>

<!ELEMENT local-flow-control (#PCDATA)>

<!ELEMENT local-index (#PCDATA)>

<!ELEMENT local-info (local-flow-control | local-remote-fault)*>

<!ELEMENT local-remote-fault (#PCDATA)>

<!ELEMENT local-traffic-statistics (input-bytes | output-bytes | input-bps | output-bps |
input-packets | output-packets | input-pps | output-pps)*>

<!ELEMENT location-name-information (interface-name | fpc-number | lcc-number)*>

<!ELEMENT location-slot-information (global-fpc-number)*>

<!ELEMENT logical-interface (name | admin-status | oper-status | vrfname | local-index |
hardware-token | snmp-index | generation | description | if-config-flags | multilink-flapped
| link-address | encapsulation | demux-table-type | copy-tos-to-outer-ip-header |
redundant-logical-interface-name | layer2-input-policer-information |
layer2-output-policer-information | pppoe-information | demux-interface |
demux-information | dialer-time-to-disconnect | dialer-information |
shared-interface-information | logical-interface-mac | mac-database |
logical-interface-bandwidth | queue-counters | ingress-queue-counters |
multilink-bundle-link-information | multilink-bundle-options | multilink-bundle-errors |
multilink-traffic-statistics | traffic-statistics | ingress-traffic-statistics |
local-traffic-statistics | transit-traffic-statistics | keepalive-config | keepalive-statistics |
ppp-flags | lcp-state | ncp-information | chap-state | pap-state | virtual-circuit-information
| filter-information | policer-information | address-family | bridge-iff-properties |
in-arp-statistics | l2circuit-info | irb-domain | media-information | multilink-bundle-status |
multilink-bundle-class | lag-traffic-statistics | layer2-input-policer-statistics |
layer2-output-policer-statistics | mac-policer-information | ppp-parameters)*>
```

<!ELEMENT logical-interface-bandwidth (#PCDATA)>

<!ELEMENT logical-interface-mac (#PCDATA)>

<!ELEMENT loopback (#PCDATA)>

<!ELEMENT loopback-clear-timer (#PCDATA)>

<!ELEMENT low-red (#PCDATA)>

<!ELEMENT lsi-traffic-statistics (input-bytes | input-bps | input-packets | input-pps)*>
<!ATTLIST lsi-traffic-statistics junos:style CDATA #IMPLIED>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT mac-database (mac-record | number-of-mac-record)*>

<!ELEMENT mac-entry-type (#PCDATA)>

<!ELEMENT mac-policer-information (mac-address | mac-entry-type | receive-bytes | transmit-bytes | receive-frames | transmit-frames | ether-policer-list)*>

<!ELEMENT mac-record (mac-address | receive-frames | receive-bytes | transmit-frames | transmit-bytes)*>

<!ELEMENT mac-validate-bytes (#PCDATA)>

<!ELEMENT mac-validate-packets (#PCDATA)>

<!ELEMENT mac-validate-statistics (mac-validate-packets | mac-validate-bytes)*>

<!ELEMENT marker-response-tx-packets (#PCDATA)>

<!ELEMENT marker-rx-packets (#PCDATA)>

<!ELEMENT max-high-red (#PCDATA)>

<!ELEMENT max-low-red (#PCDATA)>

<!ELEMENT max-speed (#PCDATA)>

<!ELEMENT media-alarm (media-alarm-name | media-alarm-seconds | media-alarm-count | media-alarm-state | ce-counter-name | ce-counter-packets | ce-counter-bytes | ce-counter-count)*>

<!ELEMENT media-alarm-count (#PCDATA)>

<!ELEMENT media-alarm-name (#PCDATA)>

<!ELEMENT media-alarm-seconds (#PCDATA)>

<!ELEMENT media-alarm-state (#PCDATA)>

<!ELEMENT media-information (media-alarm | ds1-timeslots | ds1-line-encoding | ds1-byte-encoding | ds1-data-inversion | ds1-buildout | ds0-byte-encoding | ds0-data-inversion | idle-cycle-flag | start-end-flag | e3-data-inversion | media-type)*>

```
<!ATTLIST media-information junos:style CDATA #IMPLIED>

<!ELEMENT media-state (media-state-name | media-state-state)*>

<!ELEMENT media-state-information (media-type | media-state)*>

<!ELEMENT media-state-name (#PCDATA)>

<!ELEMENT media-state-state (#PCDATA)>

<!ELEMENT media-type (#PCDATA)>

<!ELEMENT minimum-bandwidth-in-aggregate (#PCDATA)>

<!ELEMENT minimum-links (#PCDATA)>

<!ELEMENT minimum-links-in-aggregate (#PCDATA)>

<!ELEMENT mlfr-uni-nni-bandwidth (#PCDATA)>

<!ELEMENT mlfr-uni-nni-bundle-options (mlfr-uni-nni-device-type | mlfr-uni-nni-mrru |
mlfr-uni-nni-bandwidth | red-differential-delay | red-differential-delay-action |
yellow-differential-delay | lip-hello-timer | lip-ack-timer | lip-ack-retries | bundle-class |
mlfr-uni-nni-drop-timeout | mlfr-uni-nni-link-layer-overhead | mlfr-uni-nni-lmi-type |
mlfr-uni-nni-fragment-threshold | mlfr-uni-nni-minimum-links | t391 | t392 | n391 | n392
| n393)*>

<!ELEMENT mlfr-uni-nni-device-type (#PCDATA)>

<!ELEMENT mlfr-uni-nni-drop-timeout (#PCDATA)>

<!ELEMENT mlfr-uni-nni-fragment-threshold (#PCDATA)>

<!ELEMENT mlfr-uni-nni-link (name | down | link-uptime | input-frames | input-fps |
input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps |
lip-header-string | current-differential-delay | recent-high-differential-delay |
over-red-differential | over-yellow-differential | rcv-lip-addlink | rcv-lip-link-ack |
rcv-lip-link-rej | rcv-lip-hello | rcv-lip-hello-ack | rcv-lip-link-rem | rcv-lip-rem-ack |
xmt-lip-addlink | xmt-lip-link-ack | xmt-lip-link-rej | xmt-lip-hello | xmt-lip-hello-ack |
xmt-lip-link-rem | xmt-lip-rem-ack)*>

<!ELEMENT mlfr-uni-nni-link-information (active-bundle-links | removed-bundle-links |
disabled-bundle-links)*>

<!ELEMENT mlfr-uni-nni-link-layer-overhead (#PCDATA)>

<!ELEMENT mlfr-uni-nni-lmi-type (#PCDATA)>

<!ELEMENT mlfr-uni-nni-minimum-links (#PCDATA)>

<!ELEMENT mlfr-uni-nni-mrru (#PCDATA)>

<!ELEMENT mlfr-uni-nni-traffic-statistics (bundle | mlfr-uni-nni-link-information |
mlfr-uni-nni-link)*>

<!ELEMENT mlppp-inner-ppp-pfc (#PCDATA)>
```

```
<!ELEMENT mode (#PCDATA)>

<!ELEMENT modem-information (modem-type | init-command-str | init-status | baud-rate
| call-status | error-code | call-duration | call-direction)*>

<!ELEMENT modem-type (#PCDATA)>

<!ELEMENT modulator-bias-alarm (#PCDATA)>

<!ELEMENT modulator-temperature-alarm (#PCDATA)>

<!ELEMENT module-not-ready-alarm (#PCDATA)>

<!ELEMENT module-power-down-alarm (#PCDATA)>

<!ELEMENT module-temperature (#PCDATA)>
<!ATTLIST module-temperature junos:celsius CDATA #IMPLIED>

<!ELEMENT module-temperature-alarm (#PCDATA)>

<!ELEMENT module-temperature-high-alarm (#PCDATA)>

<!ELEMENT module-temperature-high-alarm-threshold (#PCDATA)>
<!ATTLIST module-temperature-high-alarm-threshold junos:celsius CDATA #IMPLIED>

<!ELEMENT module-temperature-high-warn (#PCDATA)>

<!ELEMENT module-temperature-high-warn-threshold (#PCDATA)>
<!ATTLIST module-temperature-high-warn-threshold junos:celsius CDATA #IMPLIED>

<!ELEMENT module-temperature-low-alarm (#PCDATA)>

<!ELEMENT module-temperature-low-alarm-threshold (#PCDATA)>
<!ATTLIST module-temperature-low-alarm-threshold junos:celsius CDATA #IMPLIED>

<!ELEMENT module-temperature-low-warn (#PCDATA)>

<!ELEMENT module-temperature-low-warn-threshold (#PCDATA)>
<!ATTLIST module-temperature-low-warn-threshold junos:celsius CDATA #IMPLIED>

<!ELEMENT module-temperature-not-available (#PCDATA)>

<!ELEMENT module-voltage (#PCDATA)>

<!ELEMENT module-voltage-high-alarm (#PCDATA)>

<!ELEMENT module-voltage-high-alarm-threshold (#PCDATA)>

<!ELEMENT module-voltage-high-warn (#PCDATA)>

<!ELEMENT module-voltage-high-warn-threshold (#PCDATA)>

<!ELEMENT module-voltage-low-alarm (#PCDATA)>

<!ELEMENT module-voltage-low-alarm-threshold (#PCDATA)>

<!ELEMENT module-voltage-low-warn (#PCDATA)>
```

<!ELEMENT module-voltage-low-warn-threshold (#PCDATA)>

<!ELEMENT mrru (#PCDATA)>

<!ELEMENT mrru-exceeded (#PCDATA)>

<!ELEMENT mtu (#PCDATA)>

<!ELEMENT mtu-errors (#PCDATA)>

<!ELEMENT multilink EMPTY>

<!ELEMENT multilink-active-bundle-links (#PCDATA)>

<!ELEMENT multilink-bundle-class (multilink-class-id | rx-sequence-number | tx-sequence-number | packet-drops | packet-drop-bytes | fragment-drops | fragment-drop-bytes | mrru-exceeded | processing-errors | fragment-timeout | sequence-number-missing | out-of-order-sequence-number | out-of-range-sequence-number | packet-buffer-overflow | fragment-buffer-overflow | multilink-class-drop-timeout)*>

<!ELEMENT multilink-bundle-errors (packet-drops | packet-drop-bytes | fragment-drops | fragment-drop-bytes | mrru-exceeded | processing-errors)*>

<!ELEMENT multilink-bundle-link-information (multilink-active-bundle-links | multilink-removed-bundle-links | multilink-disabled-bundle-links)*>

<!ELEMENT multilink-bundle-name (#PCDATA)>

<!ELEMENT multilink-bundle-options (mrru | remote-mrru | drop-timeout | mlppp-inner-ppp-pfc | sequence-number-format | fragment-threshold | minimum-links | interleave-fragments | multilink-classes | link-layer-overhead)*>

<!ELEMENT multilink-bundle-status (rx-sequence-number | tx-sequence-number | packet-drops | packet-drop-bytes | fragment-drops | fragment-drop-bytes | mrru-exceeded | processing-errors | fragment-timeout | sequence-number-missing | out-of-order-sequence-number | out-of-range-sequence-number | packet-buffer-overflow | fragment-buffer-overflow)*>

<!ELEMENT multilink-class-drop-timeout (#PCDATA)>

<!ELEMENT multilink-class-id (#PCDATA)>

<!ELEMENT multilink-classes (#PCDATA)>

<!ELEMENT multilink-detail-statistics (bundle-detail | class-detail)*>

<!ELEMENT multilink-disabled-bundle-links (#PCDATA)>

<!ELEMENT multilink-flapped (#PCDATA)>

<!ELEMENT multilink-frames (input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT multilink-interface-errors (oversized-frames | input-error-frames | input-disabled-bundle | output-disabled-bundle | queuing-drops | packet-buffer-overflow | fragment-buffer-overflow | fragment-timeout | sequence-number-missing | out-of-order-sequence-number | out-of-range-sequence-number | data-memory-error | control-memory-error)*>

<!ELEMENT multilink-removed-bundle-links (#PCDATA)>

<!ELEMENT multilink-traffic-statistics (bundle | class | link | multilink-detail-statistics | crtp)*>

<!ELEMENT multipoint-address (#PCDATA)>

<!ELEMENT n391 (#PCDATA)>

<!ELEMENT n392 (#PCDATA)>

<!ELEMENT n393 (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT ncp-information (ncp-protocol | ncp-state)*>

<!ELEMENT ncp-protocol (#PCDATA)>

<!ELEMENT ncp-restart-timer (#PCDATA)>

<!ELEMENT ncp-state (#PCDATA)>

<!ELEMENT near-end-attainable-bitrate (#PCDATA)>

<!ELEMENT near-end-attenuation (#PCDATA)>

<!ELEMENT near-end-capacity-used (#PCDATA)>

<!ELEMENT near-end-fast-bitrate (#PCDATA)>

<!ELEMENT near-end-fast-crc (#PCDATA)>

<!ELEMENT near-end-fast-fec (#PCDATA)>

<!ELEMENT near-end-fast-hec (#PCDATA)>

<!ELEMENT near-end-fast-rx-cells (#PCDATA)>

<!ELEMENT near-end-fast-tx-cells (#PCDATA)>

<!ELEMENT near-end-interleaved-bitrate (#PCDATA)>

<!ELEMENT near-end-interleaved-crc (#PCDATA)>

<!ELEMENT near-end-interleaved-fec (#PCDATA)>

<!ELEMENT near-end-interleaved-hec (#PCDATA)>

<!ELEMENT near-end-interleaved-rx-cells (#PCDATA)>

<!ELEMENT near-end-interleaved-tx-cells (#PCDATA)>

<!ELEMENT near-end-noise-margin (#PCDATA)>

<!ELEMENT near-end-output-power (#PCDATA)>

<!ELEMENT network-frames (input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT no-buffers (#PCDATA)>

<!ELEMENT no-mac-learning-status (#PCDATA)>

<!ELEMENT non-fragments (input-frames | input-fps | input-bytes | input-bps | output-frames | output-fps | output-bytes | output-bps)*>

<!ELEMENT number-of-mac-record (#PCDATA)>

<!ELEMENT nxds0-information (interface-tx-queue)*>

<!ELEMENT oam-ais-received-count (#PCDATA)>

<!ELEMENT oam-ais-received-last (#PCDATA)>

<!ELEMENT oam-ais-transmitted-count (#PCDATA)>

<!ELEMENT oam-ais-transmitted-last (#PCDATA)>

<!ELEMENT oam-cell-no-buffers (#PCDATA)>

<!ELEMENT oam-loopback-received-count (#PCDATA)>

<!ELEMENT oam-loopback-received-last (#PCDATA)>

<!ELEMENT oam-loopback-transmitted-count (#PCDATA)>

<!ELEMENT oam-loopback-transmitted-last (#PCDATA)>

<!ELEMENT oam-parameters (period | up-count | down-count)*>

<!ELEMENT oam-rdi-received-count (#PCDATA)>

<!ELEMENT oam-rdi-received-last (#PCDATA)>

<!ELEMENT oam-rdi-transmitted-count (#PCDATA)>

<!ELEMENT oam-rdi-transmitted-last (#PCDATA)>

<!ELEMENT oam-statistics (oam-loopback-received-count | oam-loopback-received-last | oam-loopback-transmitted-count | oam-loopback-transmitted-last | oam-rdi-received-count | oam-rdi-received-last | oam-rdi-transmitted-count | oam-rdi-transmitted-last | oam-ais-received-count | oam-ais-received-last | oam-ais-transmitted-count | oam-ais-transmitted-last | oam-total-transmitted-count | oam-total-received-count | oam-total-transmitted-count-4 | oam-total-received-count-4)*>

<!ELEMENT oam-total-received-count (#PCDATA)>

<!ELEMENT oam-total-received-count-4 (#PCDATA)>

<!ELEMENT oam-total-transmitted-count (#PCDATA)>

<!ELEMENT oam-total-transmitted-count-4 (#PCDATA)>

<!ELEMENT oper-status (#PCDATA)>

<!ELEMENT operation-not-supported-count (#PCDATA)>

<!ELEMENT optic-diagnostics-not-available (#PCDATA)>

<!ELEMENT optics-diagnostics (optic-diagnostics-not-available |
laser-bias-current-not-available | laser-tx-power-not-available |
module-temperature-not-available | laser-rx-power-not-available | laser-bias-current |
laser-output-power | laser-output-power-dbm | module-temperature | module-voltage |
rx-signal-avg-optical-power | rx-signal-avg-optical-power-dbm | laser-rx-optical-power |
laser-rx-optical-power-dbm | laser-bias-current-high-alarm | laser-bias-current-low-alarm |
laser-bias-current-high-warn | laser-bias-current-low-warn | module-voltage-high-alarm |
module-voltage-low-alarm | module-voltage-high-warn | module-voltage-low-warn |
laser-tx-power-high-alarm | laser-tx-power-low-alarm | laser-tx-power-high-warn |
laser-tx-power-low-warn | module-temperature-high-alarm |
module-temperature-low-alarm | module-temperature-high-warn |
module-temperature-low-warn | laser-rx-power-high-alarm | laser-rx-power-low-alarm |
laser-rx-power-high-warn | laser-rx-power-low-warn | laser-end-of-life-alarm |
laser-wavelength-alarm | laser-bias-current-alarm | module-temperature-alarm |
laser-power-alarm | modulator-temperature-alarm | modulator-bias-alarm |
module-not-ready-alarm | module-power-down-alarm | apd-supply-fault-alarm |
tec-fault-alarm | wavelength-unlocked-alarm | tx-mux-fifo-error-alarm | tx-loss-of-pll-alarm |
tx-data-not-ready-alarm | tx-not-ready-alarm | tx-laser-fault-alarm | tx-cdr-loss-of-lock-alarm
| rx-loss-avg-opt-power-alarm | rx-loss-ac-power-alarm | rx-loss-of-pll-alarm |
rx-not-ready-alarm | rx-loss-of-signal-alarm | rx-cdr-loss-of-lock-alarm |
module-voltage-high-alarm-threshold | module-voltage-low-alarm-threshold |
module-voltage-high-warn-threshold | module-voltage-low-warn-threshold |
laser-bias-current-high-alarm-threshold | laser-bias-current-low-alarm-threshold |
laser-bias-current-high-warn-threshold | laser-bias-current-low-warn-threshold |
laser-tx-power-high-alarm-threshold | laser-tx-power-low-alarm-threshold |
laser-tx-power-high-warn-threshold | laser-tx-power-low-warn-threshold |
laser-tx-power-high-alarm-threshold-dbm | laser-tx-power-low-alarm-threshold-dbm |
laser-tx-power-high-warn-threshold-dbm | laser-tx-power-low-warn-threshold-dbm |
module-temperature-high-alarm-threshold | module-temperature-low-alarm-threshold |
module-temperature-high-warn-threshold | module-temperature-low-warn-threshold |
laser-rx-power-high-alarm-threshold | laser-rx-power-low-alarm-threshold |
laser-rx-power-high-warn-threshold | laser-rx-power-low-warn-threshold |
laser-rx-power-high-alarm-threshold-dbm | laser-rx-power-low-alarm-threshold-dbm |
laser-rx-power-high-warn-threshold-dbm | laser-rx-power-low-warn-threshold-dbm |
optics-diagnostics-lane-values)*>

<!ELEMENT optics-diagnostics-lane-values (lane-index | laser-bias-current |
laser-output-power | laser-output-power-dbm | module-temperature |
laser-rx-optical-power | laser-rx-optical-power-dbm | laser-bias-current-high-alarm |
laser-bias-current-low-alarm | laser-bias-current-high-warn |
laser-bias-current-low-warn)*>

<!ELEMENT optics-properties (wavelength | frequency)*>

<!ELEMENT otn-alarm-lof EMPTY>

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<!ELEMENT otn-alarm-lom EMPTY>
<!ELEMENT otn-alarm-los EMPTY>
<!ELEMENT otn-alarm-odu-ais EMPTY>
<!ELEMENT otn-alarm-odu-bdi EMPTY>
<!ELEMENT otn-alarm-odu-lck EMPTY>
<!ELEMENT otn-alarm-odu-oci EMPTY>
<!ELEMENT otn-alarm-odu-rx-aps-change EMPTY>
<!ELEMENT otn-alarm-odu-sd EMPTY>
<!ELEMENT otn-alarm-odu-sf EMPTY>
<!ELEMENT otn-alarm-odu-threshold-bbe EMPTY>
<!ELEMENT otn-alarm-odu-threshold-es EMPTY>
<!ELEMENT otn-alarm-odu-threshold-ses EMPTY>
<!ELEMENT otn-alarm-odu-threshold-uas EMPTY>
<!ELEMENT otn-alarm-odu-ttim EMPTY>
<!ELEMENT otn-alarm-opu-pmi EMPTY>
<!ELEMENT otn-alarm-otu-ais EMPTY>
<!ELEMENT otn-alarm-otu-bdi EMPTY>
<!ELEMENT otn-alarm-otu-fec-degraded EMPTY>
<!ELEMENT otn-alarm-otu-fec-excessive EMPTY>
<!ELEMENT otn-alarm-otu-iae EMPTY>
<!ELEMENT otn-alarm-otu-sd EMPTY>
<!ELEMENT otn-alarm-otu-sf EMPTY>
<!ELEMENT otn-alarm-otu-threshold-bbe EMPTY>
<!ELEMENT otn-alarm-otu-threshold-es EMPTY>
<!ELEMENT otn-alarm-otu-threshold-ses EMPTY>
<!ELEMENT otn-alarm-otu-threshold-uas EMPTY>
<!ELEMENT otn-alarm-otu-ttim EMPTY>
<!ELEMENT otn-alarm-wavelength-lock EMPTY>
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<!ELEMENT otn-errors (media-alarm)*>
<!ATTLIST otn-errors junos:style CDATA #IMPLIED>

<!ELEMENT otn-fec-mode (fec-mode)*>
<!ATTLIST otn-fec-mode junos:style CDATA #IMPLIED>

<!ELEMENT otn-fec-statistics (fec-corrected-errors | fec-corrected-error-ratio)*>
<!ATTLIST otn-fec-statistics junos:style CDATA #IMPLIED>

<!ELEMENT otn-loopback (#PCDATA)>

<!ELEMENT otn-mode (#PCDATA)>

<!ELEMENT otn-oc-information (media-alarm)*>
<!ATTLIST otn-oc-information junos:style CDATA #IMPLIED>

<!ELEMENT otn-odu-information (media-alarm)*>
<!ATTLIST otn-odu-information junos:style CDATA #IMPLIED>

<!ELEMENT otn-otn-loopback (otn-loopback)*>
<!ATTLIST otn-otn-loopback junos:style CDATA #IMPLIED>

<!ELEMENT otn-otn-mode (otn-mode)*>
<!ATTLIST otn-otn-mode junos:style CDATA #IMPLIED>

<!ELEMENT otn-otn-rate (otn-rate)*>
<!ATTLIST otn-otn-rate junos:style CDATA #IMPLIED>

<!ELEMENT otn-otu-information (media-alarm)*>
<!ATTLIST otn-otu-information junos:style CDATA #IMPLIED>

<!ELEMENT otn-rate (#PCDATA)>

<!ELEMENT otn-rx-overhead (#PCDATA)>

<!ELEMENT otn-rx-tti (#PCDATA)>

<!ELEMENT otn-stats-counter (#PCDATA)>

<!ELEMENT otn-tx-overhead (#PCDATA)>

<!ELEMENT otn-tx-tti (#PCDATA)>

<!ELEMENT out-of-order-sequence-number (#PCDATA)>

<!ELEMENT out-of-range-sequence-number (#PCDATA)>

<!ELEMENT out-of-sequence (#PCDATA)>

<!ELEMENT out-of-spec-bytes (#PCDATA)>

<!ELEMENT out-of-spec-frames (#PCDATA)>

<!ELEMENT output-bps (#PCDATA)>

<!ELEMENT output-broadcasts (#PCDATA)>
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<!ELEMENT output-bytes (#PCDATA)>

<!ELEMENT output-collisions (#PCDATA)>

<!ELEMENT output-crc-errors (#PCDATA)>

<!ELEMENT output-disabled-bundle (#PCDATA)>

<!ELEMENT output-drops (#PCDATA)>

<!ELEMENT output-drops-bytes (#PCDATA)>

<!ELEMENT output-error-count (#PCDATA)>

<!ELEMENT output-error-list (carrier-transitions | output-errors | output-drops | output-collisions | output-hs-link-fifo-overflows | aged-packets | output-fifo-errors | hs-link-fifo-underflows | hs-link-crc-errors | mtu-errors | output-resource-errors)*>

<!ELEMENT output-errors (#PCDATA)>

<!ELEMENT output-fifo-errors (#PCDATA)>

<!ELEMENT output-fps (#PCDATA)>

<!ELEMENT output-frames (#PCDATA)>

<!ELEMENT output-hs-link-fifo-overflows (#PCDATA)>

<!ELEMENT output-mac-control-frames (#PCDATA)>

<!ELEMENT output-mac-pause-frames (#PCDATA)>

<!ELEMENT output-multicasts (#PCDATA)>

<!ELEMENT output-packet-error-count (#PCDATA)>

<!ELEMENT output-packet-pad-count (#PCDATA)>

<!ELEMENT output-packets (#PCDATA)>

<!ELEMENT output-pps (#PCDATA)>

<!ELEMENT output-resource-errors (#PCDATA)>

<!ELEMENT output-unicasts (#PCDATA)>

<!ELEMENT over-red-differential (#PCDATA)>

<!ELEMENT over-yellow-differential (#PCDATA)>

<!ELEMENT oversized-frames (#PCDATA)>

<!ELEMENT ownership (#PCDATA)>

<!ELEMENT packet-buffer-overflow (#PCDATA)>

<!ELEMENT packet-drop-bytes (#PCDATA)>

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<!ELEMENT packet-drops (#PCDATA)>

<!ELEMENT padm-hurl (#PCDATA)>

<!ELEMENT padm-motm (#PCDATA)>

<!ELEMENT pap-state (#PCDATA)>

<!ELEMENT payload-scrambler (#PCDATA)>

<!ELEMENT peak (#PCDATA)>

<!ELEMENT peer-configuration-status (peer-nonmatching-dlci)*>
<!ATTLIST peer-configuration-status junos:style CDATA #IMPLIED>

<!ELEMENT peer-interface-name (#PCDATA)>

<!ELEMENT peer-nonmatching-dlci (#PCDATA)>

<!ELEMENT period (#PCDATA)>

<!ELEMENT pfe-information (destination-slot | destination-mask | stream-number |
stream-mask | plp-byte | plp-byte-count | pop-all-label)*>

<!ELEMENT physical-information (#PCDATA)>
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<!ELEMENT physical-interface (name | admin-status | oper-status | local-index | snmp-index | generation | description | if-type | link-level-type | mtu | link-mode | speed | max-speed | duplex | clocking | sonet-mode | physical-mode | l2circuit-mode | ifd-cell-bundle-size | ifd-cell-bundle-timeout | loopback | ih-parent | atm-line-build-out | atm-encapsulation | atm-e3-framing | sonet-loopback | crc | payload-scrambler | ingress-rate-limit | source-filtering | if-flow-control | bpdu-error | l2pt-error | if-unidirectional | if-auto-negotiation | if-remote-fault | if-speed-auto-negotiation | if-auto-mdix | minimum-links-in-aggregate | minimum-bandwidth-in-aggregate | if-device-flags | if-config-flags | shared-interface-physical-interface | link-type | if-media-flags | optics-properties | keepalive-config | lmi-dce-config | lmi-dte-config | queue-counters | keepalive-statistics | ppp-flags | lcp-state | ncp-information | chap-state | pap-state | physical-information | es-ifd-stats | up-hold-time | down-hold-time | current-physical-address | hardware-physical-address | alternate-physical-address | interface-flapped | statistics-cleared | preserve-interface | preserve-interface-statistics | traffic-statistics | ingress-traffic-statistics | multilink-interface-errors | mlfr-uni-nni-bundle-options | multilink-bundle-errors | input-error-list | input-error-count | output-error-list | output-error-count | ber-threshold | ds1-crc-alarm-threshold | active-alarms | active-defects | media-state-information | sonet-errors | sonet-physical-information | sonet-section-information | sonet-line-information | sonet-path-information | sonet-payload-pointer-information | sonet-payload-pointer-curptr | sonet-payload-pointer-ptrinc-count | sonet-payload-pointer-ptrdec-count | sonet-payload-pointer-newptr-ndf-count | sonet-vt-information | sonet-rx-overhead | sonet-tx-overhead | sonet-rx-path-trace | sonet-tx-path-trace | otn-errors | otn-rx-overhead | otn-tx-overhead | otn-stats-counter | otn-fec-statistics | otn-fec-mode | otn-otn-mode | otn-otn-rate | otn-otn-loopback | otn-rx-tti | otn-tx-tti | media-information | ethernet-pcs-statistics | ethernet-mac-statistics | ethernet-filter-statistics | ethernet-autonegotiation | link-partner-status | local-info | mac-database | dsl-information | shdsl-information | atm-information | modem-information | serial-information | virtual-path-information | ct3-information | cds1-information | nxds0-information | ds3-mode | ds3-long-buildout | e3-framing | ds1-framing | dsu-information | ds3-bert-information | e3-bert-information | ds1-bert-information | ds0-bert-information | hdlc-information | pfe-information | logical-interface | active-alarms-otn | active-defects-otn | links | peer-configuration-status | lmi-statistics | lsi-traffic-statistics | stp-traffic-statistics | chassis-queue-counters | ingress-queue-counters | otn-oc-information | otn-otu-information | otn-odu-information | ima-state | ima-group-information | ima-link-information | satop-information | cesopsn-information | ima-group-properties | ima-link-properties | cos-information | physical-interface-cos-information | mlfr-uni-nni-traffic-statistics | interval-information)*>

<!ELEMENT physical-interface-cos-hw-max-queues (#PCDATA)>

<!ELEMENT physical-interface-cos-information (physical-interface-cos-hw-max-queues | physical-interface-cos-use-max-queues | physical-interface-schedulers | physical-interface-red-buffer-occupancy)*>

<!ELEMENT physical-interface-cos-use-max-queues (#PCDATA)>

<!ELEMENT physical-interface-name (#PCDATA)>

<!ELEMENT physical-interface-red-buffer-occupancy (instant-usage-weight-exponent)*>

<!ELEMENT physical-interface-schedulers (#PCDATA)>

<!ELEMENT physical-link (#PCDATA)>

<!ELEMENT physical-mode (#PCDATA)>

<!ELEMENT plcp-defects (media-alarm)*>

<!ELEMENT plcp-statistics (ferr-count | ferr-seconds | bipe-count | bipe-seconds | febe-count | febe-seconds)*>

<!ELEMENT plp-byte (#PCDATA)>

<!ELEMENT plp-byte-count (#PCDATA)>

<!ELEMENT plp-to-clp EMPTY>

<!ELEMENT policer-dropped-frames (#PCDATA)>

<!ELEMENT policer-family (#PCDATA)>

<!ELEMENT policer-high-frames (#PCDATA)>

<!ELEMENT policer-information (policer-family | policer-input | policer-output)*>

<!ELEMENT policer-input (#PCDATA)>

<!ELEMENT policer-low-frames (#PCDATA)>

<!ELEMENT policer-medium-high-frames (#PCDATA)>

<!ELEMENT policer-medium-low-frames (#PCDATA)>

<!ELEMENT policer-output (#PCDATA)>

<!ELEMENT policer-type (#PCDATA)>

<!ELEMENT pool-id (#PCDATA)>

<!ELEMENT pop-all-label (#PCDATA)>

<!ELEMENT port (#PCDATA)>

<!ELEMENT port-mtu (#PCDATA)>

<!ELEMENT ppp-flags (iff-ppp-flags-acfc | iff-ppp-flags-pfc)*>

<!ELEMENT ppp-parameters (lcp-restart-timer | ncp-restart-timer | termination-requests | loopback-clear-timer)*>

<!ELEMENT pppoe-information (pppoe-interface)*>

<!ELEMENT pppoe-interface (interface-name | interface-index | underlying-interface-name | underlying-interface-index | state | session-id | ac-name-config | ac-name-session | service-name | remote-mac | auto-reconnect | idle-timeout | session-uptime | dynamic-interface-bandwidth | padm-motm | padm-hurl)*>

<!ELEMENT preserve-interface (#PCDATA)>

<!ELEMENT preserve-interface-statistics (if-switchover-total | if-switchover-last-attempt | if-switchover-last-time | if-switchover-min-max-avg-time)*>

```
<!ELEMENT primary-interface (#PCDATA)>

<!ELEMENT processing-errors (#PCDATA)>

<!ELEMENT queue (queue-number | forwarding-class-name |
queue-counters-queued-packets | queue-counters-queued-packets-na |
queue-counters-queued-bytes-na | queue-counters-queued-bytes |
queue-counters-queued-packets-rate | queue-counters-queued-bytes-rate |
queue-counters-trans-packets | queue-counters-trans-bytes |
queue-counters-trans-packets-rate | queue-counters-trans-bytes-rate |
queue-counters-tail-drop-packets | queue-counters-tail-drop-packets-rate |
queue-counters-tail-drop-packets-na | queue-counters-rate-limit-drop-packets |
queue-counters-rate-limit-drop-packets-rate | queue-counters-rate-limit-drop-packets-na |
queue-counters-rate-limit-drop-bytes | queue-counters-rate-limit-drop-bytes-rate |
queue-counters-rate-limit-drop-bytes-na | queue-counters-red-packets-na |
queue-counters-red-packets | queue-counters-red-bytes-na | queue-counters-red-bytes |
queue-counters-red-packets-rate | queue-counters-red-bytes-rate |
queue-counters-red-packets-ln | queue-counters-red-bytes-ln |
queue-counters-red-packets-rate-ln | queue-counters-red-bytes-rate-ln |
queue-counters-red-packets-lt | queue-counters-red-bytes-lt |
queue-counters-red-packets-rate-lt | queue-counters-red-bytes-rate-lt |
queue-counters-red-packets-ht | queue-counters-red-bytes-ht |
queue-counters-red-packets-rate-ht | queue-counters-red-bytes-rate-ht |
queue-counters-red-packets-hn | queue-counters-red-bytes-hn |
queue-counters-red-packets-rate-hn | queue-counters-red-bytes-rate-hn |
queue-counters-red-packets-low | queue-counters-red-bytes-low |
queue-counters-red-packets-rate-low | queue-counters-red-bytes-rate-low |
queue-counters-red-packets-medium-low | queue-counters-red-bytes-medium-low |
queue-counters-red-packets-rate-medium-low |
queue-counters-red-bytes-rate-medium-low | queue-counters-red-packets-medium-high |
queue-counters-red-bytes-medium-high | queue-counters-red-packets-rate-medium-high |
queue-counters-red-bytes-rate-medium-high | queue-counters-red-packets-medium |
queue-counters-red-bytes-medium | queue-counters-red-packets-rate-medium |
queue-counters-red-bytes-rate-medium | queue-counters-red-packets-high |
queue-counters-red-bytes-high | queue-counters-red-packets-rate-high |
queue-counters-red-bytes-rate-high)*>

<!ELEMENT queue-counters (queue-counters-error-message | queue |
interface-cos-short-summary | interface-cos-summary)*>
<!ATTLIST queue-counters junos:style CDATA #IMPLIED>

<!ELEMENT queue-counters-error-message (#PCDATA)>

<!ELEMENT queue-counters-queued-bytes (#PCDATA)>

<!ELEMENT queue-counters-queued-bytes-na (#PCDATA)>

<!ELEMENT queue-counters-queued-bytes-rate (#PCDATA)>

<!ELEMENT queue-counters-queued-packets (#PCDATA)>

<!ELEMENT queue-counters-queued-packets-na (#PCDATA)>

<!ELEMENT queue-counters-queued-packets-rate (#PCDATA)>

<!ELEMENT queue-counters-rate-limit-drop-bytes (#PCDATA)>
```

<!ELEMENT queue-counters-rate-limit-drop-bytes-na (#PCDATA)>

<!ELEMENT queue-counters-rate-limit-drop-bytes-rate (#PCDATA)>

<!ELEMENT queue-counters-rate-limit-drop-packets (#PCDATA)>

<!ELEMENT queue-counters-rate-limit-drop-packets-na (#PCDATA)>

<!ELEMENT queue-counters-rate-limit-drop-packets-rate (#PCDATA)>

<!ELEMENT queue-counters-red-bytes (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-high (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-hn (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-ht (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-ln (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-low (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-lt (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-medium (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-medium-high (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-medium-low (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-na (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-high (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-hn (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-ht (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-ln (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-low (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-lt (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-medium (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-medium-high (#PCDATA)>

<!ELEMENT queue-counters-red-bytes-rate-medium-low (#PCDATA)>

<!ELEMENT queue-counters-red-packets (#PCDATA)>

<!ELEMENT queue-counters-red-packets-high (#PCDATA)>

<!ELEMENT queue-counters-red-packets-hn (#PCDATA)>

<!ELEMENT queue-counters-red-packets-ht (#PCDATA)>

<!ELEMENT queue-counters-red-packets-ln (#PCDATA)>

<!ELEMENT queue-counters-red-packets-low (#PCDATA)>

<!ELEMENT queue-counters-red-packets-lt (#PCDATA)>

<!ELEMENT queue-counters-red-packets-medium (#PCDATA)>

<!ELEMENT queue-counters-red-packets-medium-high (#PCDATA)>

<!ELEMENT queue-counters-red-packets-medium-low (#PCDATA)>

<!ELEMENT queue-counters-red-packets-na (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-high (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-hn (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-ht (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-ln (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-low (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-lt (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-medium (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-medium-high (#PCDATA)>

<!ELEMENT queue-counters-red-packets-rate-medium-low (#PCDATA)>

<!ELEMENT queue-counters-tail-drop-packets (#PCDATA)>

<!ELEMENT queue-counters-tail-drop-packets-na (#PCDATA)>

<!ELEMENT queue-counters-tail-drop-packets-rate (#PCDATA)>

<!ELEMENT queue-counters-trans-bytes (#PCDATA)>

<!ELEMENT queue-counters-trans-bytes-rate (#PCDATA)>

<!ELEMENT queue-counters-trans-packets (#PCDATA)>

<!ELEMENT queue-counters-trans-packets-rate (#PCDATA)>

<!ELEMENT queue-depth (#PCDATA)>

<!ELEMENT queue-limit (#PCDATA)>

<!ELEMENT queue-number (#PCDATA)>

```
<!ELEMENT queuing-drops (#PCDATA)>

<!ELEMENT range (#PCDATA)>

<!ELEMENT rcv-lip-addlink (#PCDATA)>

<!ELEMENT rcv-lip-hello (#PCDATA)>

<!ELEMENT rcv-lip-hello-ack (#PCDATA)>

<!ELEMENT rcv-lip-link-ack (#PCDATA)>

<!ELEMENT rcv-lip-link-rej (#PCDATA)>

<!ELEMENT rcv-lip-link-rem (#PCDATA)>

<!ELEMENT rcv-lip-rem-ack (#PCDATA)>

<!ELEMENT receive-bytes (#PCDATA)>

<!ELEMENT receive-frames (#PCDATA)>

<!ELEMENT received-count (#PCDATA)>

<!ELEMENT recent-high-differential-delay (#PCDATA)>

<!ELEMENT red-differential-delay (#PCDATA)>

<!ELEMENT red-differential-delay-action (#PCDATA)>

<!ELEMENT redial-delay (#PCDATA)>

<!ELEMENT redundant-logical-interface-name (#PCDATA)>

<!ELEMENT remote-mac (#PCDATA)>

<!ELEMENT remote-mrru (#PCDATA)>

<!ELEMENT removed-bundle-links (#PCDATA)>

<!ELEMENT resync-counter (#PCDATA)>

<!ELEMENT resync-history (resync-counter | resync-timestamp)*>

<!ELEMENT resync-timestamp (#PCDATA)>
<!ATTLIST resync-timestamp junos:seconds CDATA #IMPLIED>

<!ELEMENT route-rpf-bytes (#PCDATA)>

<!ELEMENT route-rpf-packets (#PCDATA)>

<!ELEMENT route-rpf-statistics (route-rpf-packets | route-rpf-bytes)*>

<!ELEMENT route-table (#PCDATA)>

<!ELEMENT rts (#PCDATA)>
```

```
<!ELEMENT rts-polarity (#PCDATA)>

<!ELEMENT rx-cdr-loss-of-lock-alarm (#PCDATA)>

<!ELEMENT rx-cell-count (#PCDATA)>

<!ELEMENT rx-cell-fifo-overruns (#PCDATA)>

<!ELEMENT rx-cell-fifo-underruns (#PCDATA)>

<!ELEMENT rx-clock (#PCDATA)>

<!ELEMENT rx-fe (#PCDATA)>

<!ELEMENT rx-invalid-vcs (#PCDATA)>

<!ELEMENT rx-loss-ac-power-alarm (#PCDATA)>

<!ELEMENT rx-loss-avg-opt-power-alarm (#PCDATA)>

<!ELEMENT rx-loss-of-pll-alarm (#PCDATA)>

<!ELEMENT rx-loss-of-signal-alarm (#PCDATA)>

<!ELEMENT rx-nhid (#PCDATA)>

<!ELEMENT rx-not-ready-alarm (#PCDATA)>

<!ELEMENT rx-sequence-number (#PCDATA)>

<!ELEMENT rx-signal-avg-optical-power (#PCDATA)>

<!ELEMENT rx-signal-avg-optical-power-dbm (#PCDATA)>

<!ELEMENT satop-information (ce-payload-size | ce-idle-pattern | ce-octet-aligned |
ce-jitter-buffer-packets | ce-jitter-buffer-latency | ce-jitter-buffer-auto-adjust |
ce-excessive-packet-loss-rate-sample-period |
ce-excessive-packet-loss-rate-threshold)*>

<!ELEMENT scheduling-priority (#PCDATA)>

<!ELEMENT scu-class-bps (#PCDATA)>

<!ELEMENT scu-class-bytes (#PCDATA)>

<!ELEMENT scu-class-name (#PCDATA)>

<!ELEMENT scu-class-packets (#PCDATA)>

<!ELEMENT scu-class-pps (#PCDATA)>

<!ELEMENT sdh-alarm-berr-sd EMPTY>

<!ELEMENT sdh-alarm-berr-sf EMPTY>

<!ELEMENT sdh-alarm-hpais EMPTY>
```

<!ELEMENT sdh-alarm-hpfebe EMPTY>

<!ELEMENT sdh-alarm-hpferf EMPTY>

<!ELEMENT sdh-alarm-hpplm EMPTY>

<!ELEMENT sdh-alarm-hpuneq EMPTY>

<!ELEMENT sdh-alarm-loc EMPTY>

<!ELEMENT sdh-alarm-lof EMPTY>

<!ELEMENT sdh-alarm-lol EMPTY>

<!ELEMENT sdh-alarm-lop EMPTY>

<!ELEMENT sdh-alarm-los EMPTY>

<!ELEMENT sdh-alarm-msais EMPTY>

<!ELEMENT sdh-alarm-msferf EMPTY>

<!ELEMENT sdh-alarm-oof EMPTY>

<!ELEMENT sdh-alarm-pll EMPTY>

<!ELEMENT sdh-alarm-tuais EMPTY>

<!ELEMENT sdh-alarm-tuloc EMPTY>

<!ELEMENT sdh-alarm-tulop EMPTY>

<!ELEMENT sdh-alarm-tumis EMPTY>

<!ELEMENT sdh-alarm-turdi EMPTY>

<!ELEMENT sdh-alarm-tuuneq EMPTY>

<!ELEMENT sequence-number-format (#PCDATA)>

<!ELEMENT sequence-number-missing (#PCDATA)>

<!ELEMENT serial-encoding (serial-encoding-conf)*>

<!ELEMENT serial-encoding-conf (#PCDATA)>

<!ELEMENT serial-information (line-protocol | resync-history | clocking-mode | clocking-rate | serial-encoding | dtr-circuit | eia530-signal-polarity | x21-signal-polarity | serial-loopback | tx-clock | data-signal | eia530-control-signal | x21-control-signal | dce-loopback-override)*>
<!ATTLIST serial-information heading CDATA #IMPLIED>

<!ELEMENT serial-loopback (serial-loopback-mode)*>

<!ELEMENT serial-loopback-mode (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>

```
<!ELEMENT session-id (#PCDATA)>

<!ELEMENT session-uptime (#PCDATA)>

<!ELEMENT shared-interface-information (shared-interface-logical-interface)*>

<!ELEMENT shared-interface-logical-interface (peer-interface-name |
interface-shared-with | rx-fe | rx-nhid | tx-fe | tx-nhid)*>

<!ELEMENT shared-interface-physical-interface (ownership)*>

<!ELEMENT shdsl-alarm-line1-losd EMPTY>

<!ELEMENT shdsl-alarm-line1-losw EMPTY>

<!ELEMENT shdsl-alarm-line2-losd EMPTY>

<!ELEMENT shdsl-alarm-line2-losw EMPTY>

<!ELEMENT shdsl-alarm-losd EMPTY>

<!ELEMENT shdsl-alarm-losw EMPTY>

<!ELEMENT shdsl-annex (#PCDATA)>

<!ELEMENT shdsl-bit-rate (#PCDATA)>

<!ELEMENT shdsl-cell-drop (#PCDATA)>

<!ELEMENT shdsl-chipset-version (#PCDATA)>

<!ELEMENT shdsl-crc (#PCDATA)>

<!ELEMENT shdsl-dying-gasp (#PCDATA)>

<!ELEMENT shdsl-firmware-version (#PCDATA)>

<!ELEMENT shdsl-framer-mode (#PCDATA)>

<!ELEMENT shdsl-framer-sync-status (#PCDATA)>

<!ELEMENT shdsl-hec (#PCDATA)>

<!ELEMENT shdsl-information (shdsl-line-termination | shdsl-annex | shdsl-line-mode |
shdsl-modem-status | shdsl-bit-rate | shdsl-last-fail-reason | shdsl-last-fail-code |
shdsl-framer-mode | shdsl-dying-gasp | shdsl-framer-sync-status | shdsl-chipset-version |
shdsl-firmware-version | shdsl-statistics)*>

<!ELEMENT shdsl-last-fail-code (#PCDATA)>

<!ELEMENT shdsl-last-fail-reason (#PCDATA)>

<!ELEMENT shdsl-line-mode (#PCDATA)>

<!ELEMENT shdsl-line-termination (#PCDATA)>
```

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<!ELEMENT shdsl-loop-attenuation (#PCDATA)>

<!ELEMENT shdsl-losw (#PCDATA)>

<!ELEMENT shdsl-modem-status (#PCDATA)>

<!ELEMENT shdsl-receiver-gain (#PCDATA)>

<!ELEMENT shdsl-rx-cells (#PCDATA)>

<!ELEMENT shdsl-sega (#PCDATA)>

<!ELEMENT shdsl-snr-sampling (#PCDATA)>

<!ELEMENT shdsl-statistics (shdsl-loop-attenuation | shdsl-transmit-power |
shdsl-receiver-gain | shdsl-snr-sampling | shdsl-rx-cells | shdsl-tx-cells | shdsl-crc |
shdsl-sega | shdsl-losw | shdsl-hec | shdsl-cell-drop)*>

<!ELEMENT shdsl-transmit-power (#PCDATA)>

<!ELEMENT shdsl-tx-cells (#PCDATA)>

<!ELEMENT snmp-index (#PCDATA)>

<!ELEMENT sonet-alarm-berr-sd EMPTY>

<!ELEMENT sonet-alarm-berr-sf EMPTY>

<!ELEMENT sonet-alarm-lais EMPTY>

<!ELEMENT sonet-alarm-loc EMPTY>

<!ELEMENT sonet-alarm-lof EMPTY>

<!ELEMENT sonet-alarm-lol EMPTY>

<!ELEMENT sonet-alarm-lop EMPTY>

<!ELEMENT sonet-alarm-los EMPTY>

<!ELEMENT sonet-alarm-lrdi EMPTY>

<!ELEMENT sonet-alarm-pais EMPTY>

<!ELEMENT sonet-alarm-pll EMPTY>

<!ELEMENT sonet-alarm-pmis EMPTY>

<!ELEMENT sonet-alarm-prdi EMPTY>

<!ELEMENT sonet-alarm-rei EMPTY>

<!ELEMENT sonet-alarm-sef EMPTY>

<!ELEMENT sonet-alarm-uneq EMPTY>

<!ELEMENT sonet-alarm-vais EMPTY>
```

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<!ELEMENT sonet-alarm-vloc EMPTY>

<!ELEMENT sonet-alarm-vlop EMPTY>

<!ELEMENT sonet-alarm-vmis EMPTY>

<!ELEMENT sonet-alarm-vrdi EMPTY>

<!ELEMENT sonet-alarm-vuneq EMPTY>

<!ELEMENT sonet-errors (media-alarm)*>
<!ATTLIST sonet-errors junos:style CDATA #IMPLIED>

<!ELEMENT sonet-line-information (media-alarm)*>
<!ATTLIST sonet-line-information junos:style CDATA #IMPLIED>

<!ELEMENT sonet-loopback (#PCDATA)>

<!ELEMENT sonet-mode (#PCDATA)>

<!ELEMENT sonet-path-information (media-alarm)*>
<!ATTLIST sonet-path-information junos:style CDATA #IMPLIED>

<!ELEMENT sonet-payload-pointer-curptr (#PCDATA)>

<!ELEMENT sonet-payload-pointer-information (sonet-payload-pointer-curptr |
sonet-payload-pointer-ptrinc-count | sonet-payload-pointer-ptrdec-count |
sonet-payload-pointer-newptr-ndf-count)*>

<!ELEMENT sonet-payload-pointer-newptr-ndf-count (#PCDATA)>

<!ELEMENT sonet-payload-pointer-ptrdec-count (#PCDATA)>

<!ELEMENT sonet-payload-pointer-ptrinc-count (#PCDATA)>

<!ELEMENT sonet-physical-information (media-alarm)*>
<!ATTLIST sonet-physical-information junos:style CDATA #IMPLIED>

<!ELEMENT sonet-rx-overhead (#PCDATA)>

<!ELEMENT sonet-rx-path-trace (#PCDATA)>

<!ELEMENT sonet-section-information (media-alarm)*>
<!ATTLIST sonet-section-information junos:style CDATA #IMPLIED>

<!ELEMENT sonet-tx-overhead (#PCDATA)>

<!ELEMENT sonet-tx-path-trace (#PCDATA)>

<!ELEMENT sonet-vt-information (media-alarm)*>
<!ATTLIST sonet-vt-information junos:style CDATA #IMPLIED>

<!ELEMENT source-class (scu-class-name | scu-class-packets | scu-class-bytes |
scu-class-pps | scu-class-bps)*>

<!ELEMENT source-class-statistics (source-class)*>
```

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<!ELEMENT source-filtering (#PCDATA)>

<!ELEMENT speed (#PCDATA)>

<!ELEMENT sram-errors (#PCDATA)>

<!ELEMENT start-end-flag (#PCDATA)>

<!ELEMENT start-vci (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT statistics-cleared (#PCDATA)>

<!ELEMENT stp-input-bytes-dropped (#PCDATA)>

<!ELEMENT stp-input-packets-dropped (#PCDATA)>

<!ELEMENT stp-output-bytes-dropped (#PCDATA)>

<!ELEMENT stp-output-packets-dropped (#PCDATA)>

<!ELEMENT stp-traffic-statistics (stp-input-bytes-dropped | stp-output-bytes-dropped |
stp-input-packets-dropped | stp-output-packets-dropped)*>
<!ATTLIST stp-traffic-statistics junos:style CDATA #IMPLIED>

<!ELEMENT stream-mask (#PCDATA)>

<!ELEMENT stream-number (#PCDATA)>

<!ELEMENT sub-interface-list (sub-interface-name)*>
<!ATTLIST sub-interface-list junos:style CDATA #IMPLIED>

<!ELEMENT sub-interface-name (#PCDATA)>

<!ELEMENT sustained (#PCDATA)>

<!ELEMENT svlan-ethertype (#PCDATA)>

<!ELEMENT t391 (#PCDATA)>

<!ELEMENT t392 (#PCDATA)>

<!ELEMENT tec-fault-alarm (#PCDATA)>

<!ELEMENT termination-requests (#PCDATA)>

<!ELEMENT timeouts (#PCDATA)>

<!ELEMENT tm (#PCDATA)>

<!ELEMENT tm-polarity (#PCDATA)>

<!ELEMENT to-dce (dtr | rts | cts | dcd | dsr)*>

<!ELEMENT to-dte (dtr | rts | cts | dcd | dsr)*>
```

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<!ELEMENT total-anti-replay-count (#PCDATA)>

<!ELEMENT total-authentication-failure-count (#PCDATA)>

<!ELEMENT traffic-statistics (input-bytes | output-bytes | input-bps | output-bps |
input-packets | output-packets | input-pps | output-pps | ipv6-transit-statistics)*>
<!ATTLIST traffic-statistics junos:style CDATA #IMPLIED>

<!ELEMENT transit-traffic-statistics (input-bytes | output-bytes | input-bps | output-bps |
input-packets | output-packets | input-pps | output-pps | ipv6-transit-statistics)*>

<!ELEMENT transmit-bytes (#PCDATA)>

<!ELEMENT transmit-frames (#PCDATA)>

<!ELEMENT transmit-weight-cells (#PCDATA)>

<!ELEMENT transmit-weight-percent (#PCDATA)>

<!ELEMENT transmitted-count (#PCDATA)>

<!ELEMENT trunk (#PCDATA)>

<!ELEMENT trunk-bandwidth (#PCDATA)>

<!ELEMENT tx-cdr-loss-of-lock-alarm (#PCDATA)>

<!ELEMENT tx-cell-count (#PCDATA)>

<!ELEMENT tx-cell-fifo-overruns (#PCDATA)>

<!ELEMENT tx-clock (tx-clock-mode)*>

<!ELEMENT tx-clock-mode (#PCDATA)>

<!ELEMENT tx-data-not-ready-alarm (#PCDATA)>

<!ELEMENT tx-fe (#PCDATA)>

<!ELEMENT tx-idle-cell-count (#PCDATA)>

<!ELEMENT tx-laser-fault-alarm (#PCDATA)>

<!ELEMENT tx-loss-of-pll-alarm (#PCDATA)>

<!ELEMENT tx-mux-fifo-error-alarm (#PCDATA)>

<!ELEMENT tx-nhid (#PCDATA)>

<!ELEMENT tx-not-ready-alarm (#PCDATA)>

<!ELEMENT tx-sequence-number (#PCDATA)>

<!ELEMENT type (#PCDATA)>

<!ELEMENT type-otn (#PCDATA)>
```

```
<!ELEMENT uncorrectable-hcs-errors (#PCDATA)>

<!ELEMENT underlying-interface-index (#PCDATA)>

<!ELEMENT underlying-interface-name (#PCDATA)>

<!ELEMENT unknown-rx-packets (#PCDATA)>

<!ELEMENT unnumbered-family-donor-interface-index (#PCDATA)>

<!ELEMENT unnumbered-family-donor-interface-name (#PCDATA)>

<!ELEMENT unnumbered-family-preferred-source-address (#PCDATA)>

<!ELEMENT up-count (#PCDATA)>

<!ELEMENT up-hold-time (#PCDATA)>

<!ELEMENT vc-cos-mode (#PCDATA)>

<!ELEMENT vc-queue-drops (#PCDATA)>

<!ELEMENT vci (#PCDATA)>

<!ELEMENT vci-range (vpi | start-vci | end-vci)*>

<!ELEMENT virtual-circuit-information (dlci-statistics | vpi | vci | vci-range | trunk |
trunk-bandwidth | dlci | ifvc-flags | ifvc-multipoint-destination | atm-tm-cbr | atm-tm-vbr |
atm-tm-rtvbr | peak | sustained | burst | cdvt | queue-limit | down-time | last-down-time |
ifvc-epd | ifvc-epd-plp0 | ifvc-epd-plp1 | ifvc-weight | oam-parameters | oam-statistics |
traffic-statistics | atm-statistics | atm-cos-information | in-arp-statistics)*>

<!ELEMENT virtual-path-information (vpi | ifvp-flags | atm-tm-cbr | atm-tm-vbr |
atm-tm-rtvbr | peak | sustained | burst | cdvt | queue-limit | down-time | last-down-time |
oam-parameters | oam-statistics | traffic-statistics)*>

<!ELEMENT vlan-id (#PCDATA)>

<!ELEMENT vpi (#PCDATA)>

<!ELEMENT vrfname (#PCDATA)>

<!ELEMENT watch-list (watch-route)*>
<!ATTLIST watch-list junos:style CDATA #IMPLIED>

<!ELEMENT watch-route (#PCDATA)>

<!ELEMENT watchlist EMPTY>

<!ELEMENT wavelength (#PCDATA)>

<!ELEMENT wavelength-unlocked-alarm (#PCDATA)>

<!ELEMENT wrr (#PCDATA)>

<!ELEMENT x21-control-signal (rts | cts)*>
```

```
<!ELEMENT x21-signal-polarity (rts-polarity | cts-polarity)*>

<!ELEMENT xmt-lip-addlink (#PCDATA)>

<!ELEMENT xmt-lip-hello (#PCDATA)>

<!ELEMENT xmt-lip-hello-ack (#PCDATA)>

<!ELEMENT xmt-lip-link-ack (#PCDATA)>

<!ELEMENT xmt-lip-link-rej (#PCDATA)>

<!ELEMENT xmt-lip-link-rem (#PCDATA)>

<!ELEMENT xmt-lip-rem-ack (#PCDATA)>

<!ELEMENT yellow-differential-delay (#PCDATA)>
```

Chapter 30

DTD for IDP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-idp.dtd, which lists the JUNOS XML tags that contain information about IDP support. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-idp. To review reference pages for the tags, see "Summary of IDP Response Tags" on page 836.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-idp.dtd –>

<!ELEMENT active-sessions (#PCDATA)>

<!ELEMENT attack-id (#PCDATA)>

<!ELEMENT attack-name (#PCDATA)>

<!ELEMENT attack-service-name (#PCDATA)>

<!ELEMENT auxiliary-flow (#PCDATA)>

<!ELEMENT average-latency-time (#PCDATA)>
<!ATTLIST average-latency-time junos:seconds CDATA #IMPLIED>

<!ELEMENT average-time (#PCDATA)>

<!ELEMENT cache-entries (#PCDATA)>

<!ELEMENT clear-idp-ssl-session-cache-information
(cleared-ssl-session-cache-count)*>

<!ELEMENT cleared-ssl-session-cache-count (#PCDATA)>

<!ELEMENT context-direction (#PCDATA)>

<!ELEMENT context-name (#PCDATA)>

<!ELEMENT current-icmp-flow-count (#PCDATA)>

<!ELEMENT current-other-flow-count (#PCDATA)>

<!ELEMENT current-tcp-flow-count (#PCDATA)>

<!ELEMENT current-udp-flow-count (#PCDATA)>
```

```
<!ELEMENT date-time (#PCDATA)>
<!ATTLIST date-time junos:seconds CDATA #IMPLIED>

<!ELEMENT desc (#PCDATA)>

<!ELEMENT destination-address (#PCDATA)>

<!ELEMENT destination-port (#PCDATA)>

<!ELEMENT detector-version (#PCDATA)>

<!ELEMENT direction (#PCDATA)>

<!ELEMENT from-zone (#PCDATA)>

<!ELEMENT fw-service (#PCDATA)>

<!ELEMENT get-idp-ssl-session-cache-information (idp-ssl-session-cache-count |
idp-ssl-session-cache-entry)*>

<!ELEMENT icmp-packet-count (#PCDATA)>

<!ELEMENT icmp-session-count (#PCDATA)>

<!ELEMENT idp-anomaly (attack-service-name | service-id | attack-name | attack-id)*>

<!ELEMENT idp-anomaly-list (idp-anomaly)*>

<!ELEMENT idp-application-statistics (name | value)*>

<!ELEMENT idp-application-statistics-information (idp-application-statistics)*>

<!ELEMENT idp-application-system-cache-information
(idp-application-system-cache-statistics)*>

<!ELEMENT idp-application-system-cache-statistics (virtual-system-identifier |
ip-address | port | protocol | idp-service)*>

<!ELEMENT idp-attack-groups (name)*>

<!ELEMENT idp-attack-information (idp-attack-statistics)*>

<!ELEMENT idp-attack-statistics (name | value)*>

<!ELEMENT idp-attacks-list (name)*>

<!ELEMENT idp-cache-aggregate-statistics (total-memory-used | cache-entries |
single-rules | multiple-rules)*>

<!ELEMENT idp-cache-rule (rule-pointer | rule-number | idp-service | protocol | direction |
auxiliary-flow | line-separator | memory-bytes)*>

<!ELEMENT idp-cache-rule-statistics (idp-cache-rule)*>

<!ELEMENT idp-cache-service (idp-service | memory-in-kb)*>
```

```
<!ELEMENT idp-cache-service-memory-statistics (idp-cache-service)*>

<!ELEMENT idp-cache-statistics (idp-cache-rule-statistics |
idp-cache-service-memory-statistics | idp-cache-aggregate-statistics)*>

<!ELEMENT idp-context-list (idp-contexts)*>

<!ELEMENT idp-contexts (service-name | context-name | offset-id | context-direction)*>

<!ELEMENT idp-counter-information (idp-counter-statistics)*>

<!ELEMENT idp-counter-statistics (name | value)*>

<!ELEMENT idp-detector-version (#PCDATA)>

<!ELEMENT idp-forwarding-process-mode (#PCDATA)>

<!ELEMENT idp-icmp-flow-count (current-icmp-flow-count | maximum-icmp-flow-count |
maximum-icmp-flow-count-time | date-time)*>

<!ELEMENT idp-kbits-per-second (#PCDATA)>

<!ELEMENT idp-kbits-per-second-information (idp-kbits-per-second |
idp-peak-kbits-per-second | date-time)*>

<!ELEMENT idp-latency (minimum-latency-time | maximum-latency-time |
average-latency-time)*>

<!ELEMENT idp-memory-information (idp-memory-per-spu-information)*>

<!ELEMENT idp-memory-per-spu-information (pic-name |
total-idp-data-plane-memory-in-mb | total-idp-data-plane-memory-used-in-mb |
total-idp-data-plane-memory-used-in-kb | total-idp-data-plane-memory-available-in-mb |
total-idp-data-plane-memory-available-in-kb)*>

<!ELEMENT idp-mode (idp-forwarding-process-mode)*>

<!ELEMENT idp-other-flow-count (current-other-flow-count | maximum-other-flow-count |
maximum-other-flow-count-time | date-time)*>

<!ELEMENT idp-packet-count (icmp-packet-count | tcp-packet-count | udp-packet-count |
other-packet-count)*>

<!ELEMENT idp-packets-per-second (#PCDATA)>

<!ELEMENT idp-packets-per-second-information (idp-packets-per-second |
idp-peak-packets-per-second | date-time)*>

<!ELEMENT idp-peak-kbits-per-second (#PCDATA)>

<!ELEMENT idp-peak-packets-per-second (#PCDATA)>

<!ELEMENT idp-policy (policy-load-templates)*>

<!ELEMENT idp-policy-name (#PCDATA)>

<!ELEMENT idp-predefined-attack-groups (idp-attack-groups)*>
```

<!ELEMENT idp-predefined-attacks (idp-attacks-list)*>

<!ELEMENT idp-protocol-list (idp-protocols)*>

<!ELEMENT idp-protocols (protocol-name | protocol-type | port-number | line-seperator | scope)*>

<!ELEMENT idp-qmodule (name | minimum-time | maximum-time | average-time | number-of-packets | number-of-packets-dropped | number-of-error-packets)*>

<!ELEMENT idp-qmodule-information (idp-qmodule)*>

<!ELEMENT idp-rule-information (idp-rule-name | idp-rulebase-type)*>

<!ELEMENT idp-rule-name (#PCDATA)>

<!ELEMENT idp-rulebase (idp-rule-information)*>

<!ELEMENT idp-rulebase-type (idp-rulebase-type-name | number-of-rules)*>

<!ELEMENT idp-rulebase-type-name (#PCDATA)>

<!ELEMENT idp-security-package-information (security-package-version | detector-version | policy-template-version)*>

<!ELEMENT idp-service (#PCDATA)>

<!ELEMENT idp-session (session-identifier | source-address | source-port | destination-address | destination-port | from-zone | to-zone | protocol | idp-service | fw-service | timeout | maximum-timeout)*>

<!ELEMENT idp-session-count (icmp-session-count | tcp-session-count | udp-session-count | other-session-count)*>

<!ELEMENT idp-session-information (idp-session)*>

<!ELEMENT idp-session-summary-information (idp-session-summary-per-pic-information | total-sessions)*>

<!ELEMENT idp-session-summary-per-pic-information (pic-name | maximum-sessions | active-sessions)*>

<!ELEMENT idp-sigdb-version (#PCDATA)>

<!ELEMENT idp-ssl-key-count (#PCDATA)>

<!ELEMENT idp-ssl-key-information (idp-ssl-key-count | idp-ssl-per-key-information)*>

<!ELEMENT idp-ssl-per-key-information (key-name | destination-address)*>

<!ELEMENT idp-ssl-session-cache-count (#PCDATA)>

<!ELEMENT idp-ssl-session-cache-entry (ssl-session-identifier)*>

<!ELEMENT idp-ssl-session-information (ssl-session-count)*>

```
<!ELEMENT idp-status (#PCDATA)>

<!ELEMENT idp-status-information (idp-uptime | idp-packets-per-second-information |
idp-kbits-per-second-information | idp-latency | idp-packet-count | idp-icmp-flow-count |
idp-tcp-flow-count | idp-udp-flow-count | idp-other-flow-count | idp-session-count |
idp-ssl-session-information)*>

<!ELEMENT idp-tcp-flow-count (current-tcp-flow-count | maximum-tcp-flow-count |
maximum-tcp-flow-count-time | date-time)*>

<!ELEMENT idp-udp-flow-count (current-udp-flow-count | maximum-udp-flow-count |
maximum-udp-flow-count-time | date-time)*>

<!ELEMENT idp-uptime (idp-status | date-time | time-length)*>

<!ELEMENT idp-version-information (idp-policy-name | idp-detector-version |
idp-sigdb-version)*>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT key-name (#PCDATA)>

<!ELEMENT key-number (#PCDATA)>

<!ELEMENT line-separator (#PCDATA)>

<!ELEMENT line-seperator (#PCDATA)>

<!ELEMENT maximum-icmp-flow-count (#PCDATA)>

<!ELEMENT maximum-icmp-flow-count-time (#PCDATA)>
<!ATTLIST maximum-icmp-flow-count-time junos:seconds CDATA #IMPLIED>

<!ELEMENT maximum-latency-time (#PCDATA)>
<!ATTLIST maximum-latency-time junos:seconds CDATA #IMPLIED>

<!ELEMENT maximum-other-flow-count (#PCDATA)>

<!ELEMENT maximum-other-flow-count-time (#PCDATA)>
<!ATTLIST maximum-other-flow-count-time junos:seconds CDATA #IMPLIED>

<!ELEMENT maximum-sessions (#PCDATA)>

<!ELEMENT maximum-tcp-flow-count (#PCDATA)>

<!ELEMENT maximum-tcp-flow-count-time (#PCDATA)>
<!ATTLIST maximum-tcp-flow-count-time junos:seconds CDATA #IMPLIED>

<!ELEMENT maximum-time (#PCDATA)>

<!ELEMENT maximum-timeout (#PCDATA)>

<!ELEMENT maximum-udp-flow-count (#PCDATA)>

<!ELEMENT maximum-udp-flow-count-time (#PCDATA)>
<!ATTLIST maximum-udp-flow-count-time junos:seconds CDATA #IMPLIED>
```

```
<!ELEMENT memory-bytes (#PCDATA)>

<!ELEMENT memory-in-kb (#PCDATA)>

<!ELEMENT minimum-latency-time (#PCDATA)>
<!ATTLIST minimum-latency-time junos:seconds CDATA #IMPLIED>

<!ELEMENT minimum-time (#PCDATA)>

<!ELEMENT multiple-rules (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT number-of-error-packets (#PCDATA)>

<!ELEMENT number-of-packets (#PCDATA)>

<!ELEMENT number-of-packets-dropped (#PCDATA)>

<!ELEMENT number-of-rules (#PCDATA)>

<!ELEMENT offset-id (#PCDATA)>

<!ELEMENT other-packet-count (#PCDATA)>

<!ELEMENT other-session-count (#PCDATA)>

<!ELEMENT pic-name (#PCDATA)>

<!ELEMENT policy-load-templates (desc)*>

<!ELEMENT policy-template-version (#PCDATA)>

<!ELEMENT port (#PCDATA)>

<!ELEMENT port-number (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>

<!ELEMENT protocol-name (#PCDATA)>

<!ELEMENT protocol-type (#PCDATA)>

<!ELEMENT request-idp-ssl-key-add (#PCDATA)>

<!ELEMENT request-idp-ssl-key-delete (key-number | server-number)*>

<!ELEMENT rule-number (#PCDATA)>

<!ELEMENT rule-pointer (#PCDATA)>

<!ELEMENT scope (#PCDATA)>

<!ELEMENT secpack-download-policy-template-detail (#PCDATA)>

<!ELEMENT secpack-download-policy-template-result
(secpack-download-policy-template-detail)*>
```

```
<!ELEMENT secpack-download-status (secpack-download-status-detail)*>

<!ELEMENT secpack-download-status-detail (#PCDATA)>

<!ELEMENT secpack-status-detail (#PCDATA)>

<!ELEMENT secpack-update-policy-template-detail (#PCDATA)>

<!ELEMENT secpack-update-policy-template-result
(secpack-update-policy-template-detail)*>

<!ELEMENT secpack-update-status (secpack-status-detail)*>

<!ELEMENT security-package-version (#PCDATA)>

<!ELEMENT server-number (#PCDATA)>

<!ELEMENT service-id (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>

<!ELEMENT session-identifier (#PCDATA)>

<!ELEMENT single-rules (#PCDATA)>

<!ELEMENT source-address (#PCDATA)>

<!ELEMENT source-port (#PCDATA)>

<!ELEMENT ssl-session-count (#PCDATA)>

<!ELEMENT ssl-session-identifier (#PCDATA)>

<!ELEMENT tcp-packet-count (#PCDATA)>

<!ELEMENT tcp-session-count (#PCDATA)>

<!ELEMENT time-length (#PCDATA)>
<!ATTLIST time-length junos:seconds CDATA #IMPLIED>

<!ELEMENT timeout (#PCDATA)>

<!ELEMENT to-zone (#PCDATA)>

<!ELEMENT total-idp-data-plane-memory-available-in-kb (#PCDATA)>

<!ELEMENT total-idp-data-plane-memory-available-in-mb (#PCDATA)>

<!ELEMENT total-idp-data-plane-memory-in-mb (#PCDATA)>

<!ELEMENT total-idp-data-plane-memory-used-in-kb (#PCDATA)>

<!ELEMENT total-idp-data-plane-memory-used-in-mb (#PCDATA)>

<!ELEMENT total-memory-used (#PCDATA)>
```

```
<!ELEMENT total-sessions (#PCDATA)>
<!ELEMENT udp-packet-count (#PCDATA)>
<!ELEMENT udp-session-count (#PCDATA)>
<!ELEMENT value (#PCDATA)>
<!ELEMENT virtual-system-identifier (#PCDATA)>
```

Chapter 31

DTD for Interface Metadata Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-interface-metadata.dtd, which lists the JUNOS XML tags that contain information about interface meatadata. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-interface-metadata. To review reference pages for the tags, see "Summary of Interface Metadata Response Tags" on page 861.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-interface-metadata.dtd –>

<!ELEMENT channels (subunit)*>

<!ELEMENT flag (#PCDATA)>

<!ELEMENT interface (name | long | pics-per-slot | ports-per-slot | max-mtu | flag |
channels | max-channelization | product)*>

<!ELEMENT interface-metadata-information (interface)*>

<!ELEMENT long (#PCDATA)>

<!ELEMENT max-channelization (#PCDATA)>

<!ELEMENT max-mtu (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT pics-per-slot (#PCDATA)>

<!ELEMENT ports-per-slot (#PCDATA)>

<!ELEMENT product (#PCDATA)>

<!ELEMENT subunit (#PCDATA)>
```

Chapter 32

DTD for IPSec Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-ipsec.dtd, which lists the JUNOS XML tags that contain IP Security (IPSec) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ipsec. To review reference pages for the tags, see "Summary of IPSec Response Tags" on page 1042.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-ipsec.dtd –>

<!ELEMENT active-entries (#PCDATA)>

<!ELEMENT ah-authentication-failures (#PCDATA)>

<!ELEMENT ah-input-bytes (#PCDATA)>

<!ELEMENT ah-input-packets (#PCDATA)>

<!ELEMENT ah-output-bytes (#PCDATA)>

<!ELEMENT ah-output-packets (#PCDATA)>

<!ELEMENT ah-statistics (ah-input-bytes | ah-output-bytes | ah-input-packets |
ah-output-packets)*>

<!ELEMENT alternate-subject (#PCDATA)>

<!ELEMENT alternate-subject-list (alternate-subject)*>

<!ELEMENT authorization-status (#PCDATA)>

<!ELEMENT auto-re-enrollment (auto-re-enrollment-status |
auto-re-enrollment-next-trigger-time)*>

<!ELEMENT auto-re-enrollment-next-trigger-time (#PCDATA)>

<!ELEMENT auto-re-enrollment-status (#PCDATA)>

<!ELEMENT bad-headers (#PCDATA)>

<!ELEMENT bad-trailers (#PCDATA)>

<!ELEMENT ca-certificate-enroll (ca-subject | fingerprint)*>
```

<!ELEMENT ca-certificate-enroll-list (ca-certificate-enroll-msg | ca-certificate-enroll)*>

<!ELEMENT ca-certificate-enroll-msg (#PCDATA)>

<!ELEMENT ca-file (#PCDATA)>

<!ELEMENT ca-name (#PCDATA)>

<!ELEMENT ca-profile-name (#PCDATA)>

<!ELEMENT ca-subject (#PCDATA)>

<!ELEMENT cert-after (#PCDATA)>

<!ELEMENT cert-before (#PCDATA)>

<!ELEMENT cert-ca-load-status (cert-ca-profile)*>

<!ELEMENT cert-ca-manual-load (fingerprint)*>

<!ELEMENT cert-ca-profile (#PCDATA)>

<!ELEMENT cert-certificate-id (#PCDATA)>

<!ELEMENT cert-crl (#PCDATA)>

<!ELEMENT cert-flag-info (cert-flag-trust | cert-flag-root)*>

<!ELEMENT cert-flag-root (#PCDATA)>

<!ELEMENT cert-flag-trust (#PCDATA)>

<!ELEMENT cert-id (#PCDATA)>

<!ELEMENT cert-issuer (#PCDATA)>

<!ELEMENT cert-key-pair (cert-key-pair-name | cert-key-pair-size)*>

<!ELEMENT cert-key-pair-name (#PCDATA)>

<!ELEMENT cert-key-pair-size (#PCDATA)>

<!ELEMENT cert-load-status (cert-certificate-id)*>

<!ELEMENT cert-references (#PCDATA)>

<!ELEMENT cert-request-dump (cert-request-dump-msg | cert-request-dump-file | fingerprint)*>

<!ELEMENT cert-request-dump-file (cert-request-dump-file-content)*>

<!ELEMENT cert-request-dump-file-content (#PCDATA)>

<!ELEMENT cert-request-dump-msg (#PCDATA)>

<!ELEMENT cert-root (#PCDATA)>

```
<!ELEMENT cert-serial (#PCDATA)>

<!ELEMENT cert-subject (#PCDATA)>

<!ELEMENT cert-trust (#PCDATA)>

<!ELEMENT certificate-alternate-subject (#PCDATA)>

<!ELEMENT certificate-cache-entry (#PCDATA)>

<!ELEMENT certificate-dns (#PCDATA)>

<!ELEMENT certificate-information (certificates | total-entries | active-entries |
locked-entries | db-stats)*>
<!ATTLIST certificate-information junos:style CDATA #IMPLIED>

<!ELEMENT certificate-subject (#PCDATA)>

<!ELEMENT certificate-type (#PCDATA)>

<!ELEMENT certificates (cert-subject | cert-serial | cert-id | cert-references | cert-issuer |
cert-trust | cert-root | cert-crl | cert-before | cert-after | x509)*>

<!ELEMENT common-name (#PCDATA)>

<!ELEMENT country-name (#PCDATA)>

<!ELEMENT crl (cert-issuer | cert-id | cert-references | crl-list)*>

<!ELEMENT crl-information (crl)*>
<!ATTLIST crl-information junos:style CDATA #IMPLIED>

<!ELEMENT crl-issuer (#PCDATA)>

<!ELEMENT crl-issuer-alternate-subject (#PCDATA)>

<!ELEMENT crl-issuer-alternate-subject-list (crl-issuer-alternate-subject)*>

<!ELEMENT crl-issuer-detail (distinguished-name)*>

<!ELEMENT crl-list (serial | revocation-date)*>

<!ELEMENT crl-load-status (ca-profile-name)*>

<!ELEMENT crl-number (#PCDATA)>

<!ELEMENT crl-revocation-date (#PCDATA)>

<!ELEMENT crl-revocation-list (revoked-cert-serial-number | crl-revocation-date)*>

<!ELEMENT crl-validity (effective-date | next-update)*>

<!ELEMENT crl-version (#PCDATA)>

<!ELEMENT db-stats (#PCDATA)>
```

<!ELEMENT distinguished-name (organization-name | organizational-unit-name | country-name | state-or-province-name | locality-name | common-name | email-address | domain-component)*>

<!ELEMENT distribution-crl (#PCDATA)>

<!ELEMENT distribution-crl-list (distribution-crl)*>

<!ELEMENT domain-component (#PCDATA)>

<!ELEMENT effective-date (#PCDATA)>

<!ELEMENT email-address (#PCDATA)>

<!ELEMENT encoding (#PCDATA)>

<!ELEMENT error-statistics (ah-authentication-failures | replay-errors | esp-authentication-failures | esp-decryption-failures | bad-headers | bad-trailers)*>

<!ELEMENT esp-authentication-failures (#PCDATA)>

<!ELEMENT esp-decrypted-bytes (#PCDATA)>

<!ELEMENT esp-decrypted-packets (#PCDATA)>

<!ELEMENT esp-decryption-failures (#PCDATA)>

<!ELEMENT esp-encrypted-bytes (#PCDATA)>

<!ELEMENT esp-encrypted-packets (#PCDATA)>

<!ELEMENT esp-statistics (esp-encrypted-bytes | esp-decrypted-bytes | esp-encrypted-packets | esp-decrypted-packets)*>

<!ELEMENT fingerprint (fingerprint-hash-algorithm | fingerprint-content)*>

<!ELEMENT fingerprint-content (#PCDATA)>

<!ELEMENT fingerprint-hash-algorithm (#PCDATA)>

<!ELEMENT fips-pic-status (fpc-slot | pic-slot | serial-number | authorization-status)*>

<!ELEMENT fips-pic-status-information (fips-pic-status)*>

<!ELEMENT fpc-slot (#PCDATA)>

<!ELEMENT identifier (#PCDATA)>

<!ELEMENT ike-sa-algorithms (ike-sa-authentication-algorithm | ike-sa-encryption-algorithm | ike-sa-prf-algorithm)*>

<!ELEMENT ike-sa-authentication-algorithm (#PCDATA)>

<!ELEMENT ike-sa-authentication-method (#PCDATA)>

<!ELEMENT ike-sa-encryption-algorithm (#PCDATA)>

```
<!ELEMENT ike-sa-exchange-type (#PCDATA)>

<!ELEMENT ike-sa-flags (#PCDATA)>

<!ELEMENT ike-sa-initiator-cookie (#PCDATA)>

<!ELEMENT ike-sa-input-bytes (#PCDATA)>

<!ELEMENT ike-sa-input-packets (#PCDATA)>

<!ELEMENT ike-sa-lifetime (#PCDATA)>

<!ELEMENT ike-sa-local-address (#PCDATA)>

<!ELEMENT ike-sa-local-id (#PCDATA)>

<!ELEMENT ike-sa-local-port (#PCDATA)>

<!ELEMENT ike-sa-misc (ike-sa-flags | ike-sa-num-ipsec-sas-created |
ike-sa-num-ipsec-sas-deleted | ike-sa-num-phase2-negotiations)*>

<!ELEMENT ike-sa-msg-id (#PCDATA)>

<!ELEMENT ike-sa-num-ipsec-sas-created (#PCDATA)>

<!ELEMENT ike-sa-num-ipsec-sas-deleted (#PCDATA)>

<!ELEMENT ike-sa-num-phase2-negotiations (#PCDATA)>

<!ELEMENT ike-sa-output-bytes (#PCDATA)>

<!ELEMENT ike-sa-output-packets (#PCDATA)>

<!ELEMENT ike-sa-phase2-information (ike-sa-phase2-type | ike-sa-role | ike-sa-msg-id |
ike-sa-local-address | ike-sa-local-port | ike-sa-remote-address | ike-sa-remote-port |
ike-sa-local-id | ike-sa-remote-id | ike-sa-flags)*>

<!ELEMENT ike-sa-phase2-type (#PCDATA)>

<!ELEMENT ike-sa-prf-algorithm (#PCDATA)>

<!ELEMENT ike-sa-remote-address (#PCDATA)>

<!ELEMENT ike-sa-remote-id (#PCDATA)>

<!ELEMENT ike-sa-remote-port (#PCDATA)>

<!ELEMENT ike-sa-responder-cookie (#PCDATA)>

<!ELEMENT ike-sa-role (#PCDATA)>

<!ELEMENT ike-sa-state (#PCDATA)>

<!ELEMENT ike-sa-traffic-statistics (ike-sa-input-packets | ike-sa-output-packets |
ike-sa-input-bytes | ike-sa-output-bytes)*>
```

```
<!ELEMENT ike-security-associations (ike-sa-role | ike-sa-state | ike-sa-initiator-cookie |
ike-sa-responder-cookie | ike-sa-exchange-type | ike-sa-authentication-method |
ike-sa-local-address | ike-sa-local-port | ike-sa-remote-address | ike-sa-remote-port |
ike-sa-lifetime | ike-sa-algorithms | ike-sa-traffic-statistics | ike-sa-misc |
ike-sa-phase2-information)*>

<!ELEMENT ike-security-associations-block (ike-sa-remote-address |
ike-security-associations)*>

<!ELEMENT ike-security-associations-information (ike-security-associations |
ike-sa-phase2-information | ike-security-associations-block)*>
<!ATTLIST ike-security-associations-information junos:style CDATA #IMPLIED>

<!ELEMENT ipsec-pic-redundancy (ipsec-redundancy-counter |
ipsec-redundancy-pic-no-information | ipsec-pic-redundancy-primary-interface |
ipsec-pic-redundancy-backup-interface | ipsec-redundancy-primary-state |
ipsec-redundancy-backup-state)*>

<!ELEMENT ipsec-pic-redundancy-backup-interface (#PCDATA)>

<!ELEMENT ipsec-pic-redundancy-information (ipsec-pic-redundancy)*>

<!ELEMENT ipsec-pic-redundancy-primary-interface (#PCDATA)>

<!ELEMENT ipsec-redundancy-backup-state (#PCDATA)>

<!ELEMENT ipsec-redundancy-counter (#PCDATA)>

<!ELEMENT ipsec-redundancy-pic-no-information EMPTY>

<!ELEMENT ipsec-redundancy-primary-state (#PCDATA)>

<!ELEMENT ipsec-redundancy-tunnel-no-information EMPTY>

<!ELEMENT ipsec-service-set-statistics (pic-name | service-set-name |
ipsec-statistics)*>

<!ELEMENT ipsec-statistics (local-gateway | remote-gateway | tunnel-index |
esp-statistics | ah-statistics | error-statistics | statistics-no-information)*>

<!ELEMENT ipsec-total-statistics (ipsec-service-set-statistics)*>

<!ELEMENT ipsec-total-statistics-information (ipsec-service-set-statistics)*>
<!ATTLIST ipsec-total-statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT ipsec-tunnel-redundancy (sa-name | ipsec-redundancy-counter |
ipsec-redundancy-tunnel-no-information | ipsec-tunnel-redundancy-local-address |
ipsec-tunnel-redundancy-primary-remote-address |
ipsec-tunnel-redundancy-backup-remote-address | ipsec-redundancy-primary-state |
ipsec-redundancy-backup-state)*>

<!ELEMENT ipsec-tunnel-redundancy-backup-remote-address (#PCDATA)>

<!ELEMENT ipsec-tunnel-redundancy-information (ipsec-tunnel-redundancy)*>

<!ELEMENT ipsec-tunnel-redundancy-local-address (#PCDATA)>
```

```
<!ELEMENT ipsec-tunnel-redundancy-primary-remote-address (#PCDATA)>

<!ELEMENT issue-info (recipient | issued-by)*>

<!ELEMENT issued-by (#PCDATA)>

<!ELEMENT issuer (distinguished-name)*>

<!ELEMENT key (#PCDATA)>

<!ELEMENT key-contents (#PCDATA)>

<!ELEMENT key-usage (#PCDATA)>

<!ELEMENT key-usage-list (key-usage)*>

<!ELEMENT kmd-memory-usage (memory-block-type | memory-in-use)*>

<!ELEMENT kmd-memory-usage-information (kmd-memory-usage)*>
<!ATTLIST kmd-memory-usage-information junos:style CDATA #IMPLIED>

<!ELEMENT local-gateway (#PCDATA)>

<!ELEMENT locality-name (#PCDATA)>

<!ELEMENT locked-entries (#PCDATA)>

<!ELEMENT memory-block-type (#PCDATA)>

<!ELEMENT memory-in-use (#PCDATA)>

<!ELEMENT message (#PCDATA)>

<!ELEMENT next-update (#PCDATA)>

<!ELEMENT not-after (#PCDATA)>

<!ELEMENT not-before (#PCDATA)>

<!ELEMENT organization-name (#PCDATA)>

<!ELEMENT organizational-unit-name (#PCDATA)>

<!ELEMENT outside-service-interface-routing-instance (#PCDATA)>

<!ELEMENT pic-name (#PCDATA)>

<!ELEMENT pic-slot (#PCDATA)>

<!ELEMENT pki-scep (url | ca-name | ca-file | key | certificate-subject | certificate-dns |
certificate-alternate-subject | encoding | message)*>

<!ELEMENT public-key (public-key-algorithm | public-key-length |
public-key-verification-status)*>

<!ELEMENT public-key-algorithm (#PCDATA)>
```

```
<!ELEMENT public-key-contents-list (key-contents)*>
<!ELEMENT public-key-length (#PCDATA)>
<!ELEMENT public-key-verification-status (#PCDATA)>
<!ELEMENT recipient (#PCDATA)>
<!ELEMENT remote-gateway (#PCDATA)>
<!ELEMENT replay-errors (#PCDATA)>
<!ELEMENT revocation-date (#PCDATA)>
<!ELEMENT revoked-cert-serial-number (#PCDATA)>
<!ELEMENT sa-anti-replay-service (#PCDATA)>
<!ELEMENT sa-authentication-algorithm (#PCDATA)>
<!ELEMENT sa-aux-spi (#PCDATA)>
<!ELEMENT sa-block-state (#PCDATA)>
<!ELEMENT sa-direction (#PCDATA)>
<!ELEMENT sa-encryption-algorithm (#PCDATA)>
<!ELEMENT sa-hard-lifetime (#PCDATA)>
<!ELEMENT sa-inside-interface (#PCDATA)>
<!ELEMENT sa-local-gateway (#PCDATA)>
<!ELEMENT sa-local-identity (#PCDATA)>
<!ELEMENT sa-mode (#PCDATA)>
<!ELEMENT sa-name (#PCDATA)>
<!ELEMENT sa-no-information EMPTY>
<!ELEMENT sa-protocol (#PCDATA)>
<!ELEMENT sa-remote-gateway (#PCDATA)>
<!ELEMENT sa-remote-identity (#PCDATA)>
<!ELEMENT sa-replay-window-size (#PCDATA)>
<!ELEMENT sa-rule-name (#PCDATA)>
<!ELEMENT sa-soft-lifetime (#PCDATA)>
<!ELEMENT sa-spi (#PCDATA)>
<!ELEMENT sa-state (#PCDATA)>
```

```
<!ELEMENT sa-term-name (#PCDATA)>

<!ELEMENT sa-tunnel-index (#PCDATA)>

<!ELEMENT sa-tunnel-information (sa-rule-name | sa-term-name | sa-tunnel-index |
sa-local-gateway | sa-remote-gateway | sa-local-identity | sa-remote-identity |
sa-inside-interface | sa-tunnel-mtu | sa-no-information)*>

<!ELEMENT sa-tunnel-mtu (#PCDATA)>

<!ELEMENT sa-type (#PCDATA)>

<!ELEMENT security-associations (sa-direction | sa-spi | sa-aux-spi | sa-state | sa-mode
| sa-type | sa-protocol | sa-authentication-algorithm | sa-encryption-algorithm |
sa-soft-lifetime | sa-hard-lifetime | sa-anti-replay-service | sa-replay-window-size)*>

<!ELEMENT security-associations-block (sa-name | sa-block-state |
sa-tunnel-information | security-associations)*>

<!ELEMENT security-associations-information (security-associations-block |
sa-tunnel-information | security-associations)*>
<!ATTLIST security-associations-information junos:style CDATA #IMPLIED>

<!ELEMENT serial (#PCDATA)>

<!ELEMENT serial-number (#PCDATA)>

<!ELEMENT serial-number-list (serial-number-x509)*>

<!ELEMENT serial-number-x509 (#PCDATA)>

<!ELEMENT service-set-info (service-set-name | total-cert-entries)*>

<!ELEMENT service-set-name (#PCDATA)>

<!ELEMENT services-security-associations-block (svc-set-name |
outside-service-interface-routing-instance | sa-tunnel-information | security-associations
| tunnel-redundancy-extensive)*>

<!ELEMENT services-security-associations-information
(services-security-associations-block | sa-tunnel-information | security-associations |
tunnel-redundancy-extensive)*>
<!ATTLIST services-security-associations-information junos:style CDATA #IMPLIED>

<!ELEMENT signature-algorithm (#PCDATA)>

<!ELEMENT state-or-province-name (#PCDATA)>

<!ELEMENT statistics-no-information EMPTY>

<!ELEMENT status (#PCDATA)>

<!ELEMENT subject (distinguished-name)*>

<!ELEMENT svc-set-name (#PCDATA)>
```

```
<!ELEMENT total-cert-entries (#PCDATA)>

<!ELEMENT total-entries (#PCDATA)>

<!ELEMENT tunnel-index (#PCDATA)>

<!ELEMENT tunnel-redundancy-extensive (ipsec-redundancy-counter |
ipsec-redundancy-tunnel-no-information |
ipsec-tunnel-redundancy-primary-remote-address |
ipsec-tunnel-redundancy-backup-remote-address | ipsec-redundancy-primary-state |
ipsec-redundancy-backup-state)*>

<!ELEMENT url (#PCDATA)>

<!ELEMENT validity (not-before | not-after)*>

<!ELEMENT version (#PCDATA)>

<!ELEMENT x509 (x509-ip | x509-dns | x509-uri | x509-email)*>

<!ELEMENT x509-certificate-cache-info (service-set-info | cert-flag-info | issue-info |
serial-number-list | public-key | fingerprint | public-key-contents-list |
alternate-subject-list | key-usage-list | distribution-crl-list | signature-algorithm | identifier
| validity | version | certificate-cache-entry)*>
<!ATTLIST x509-certificate-cache-info junos:style CDATA #IMPLIED>

<!ELEMENT x509-certificate-cache-info-list (x509-certificate-cache-info)*>

<!ELEMENT x509-certificate-info (issue-info | serial-number-list | public-key | fingerprint |
public-key-contents-list | alternate-subject-list | key-usage-list | distribution-crl-list |
signature-algorithm | identifier | validity | version | auto-re-enrollment | certificate-type |
status | issuer | subject)*>
<!ATTLIST x509-certificate-info junos:style CDATA #IMPLIED>

<!ELEMENT x509-crl-information (crl-number | crl-revocation-list | crl-validity | crl-version
| crl-issuer | identifier | crl-issuer-alternate-subject-list | crl-issuer-detail)*>
<!ATTLIST x509-crl-information junos:style CDATA #IMPLIED>

<!ELEMENT x509-dns (#PCDATA)>

<!ELEMENT x509-email (#PCDATA)>

<!ELEMENT x509-ip (#PCDATA)>

<!ELEMENT x509-pki-certificate-info-list (x509-certificate-info)*>

<!ELEMENT x509-pki-crl-information-list (x509-crl-information)*>

<!ELEMENT x509-uri (#PCDATA)>
```

Chapter 33

DTD for IPv6 Neighbor Discovery Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-ipv6-nd.dtd, which lists the JUNOS XML tags that contain IP version 6 (IPv6) neighbor discovery information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ipv6-nd. To review reference pages for the tags, see "Summary of IPv6 Neighbor Discovery Response Tags" on page 1078.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-ipv6-nd.dtd –>

<!ELEMENT ipv6-modify-nd (ipv6-modify-nd-entry)*>

<!ELEMENT ipv6-modify-nd-entry (ipv6-nd-neighbor-address |
ipv6-nd-neighbor-l2-address | ipv6-nd-change)*>

<!ELEMENT ipv6-nd-change (#PCDATA)>

<!ELEMENT ipv6-nd-entry (ipv6-nd-neighbor-address | ipv6-nd-neighbor-l2-address |
ipv6-nd-total | ipv6-nd-state | ipv6-nd-expire | ipv6-nd-isrouter | ipv6-nd-issecure |
ipv6-nd-interface-name)*>

<!ELEMENT ipv6-nd-expire (#PCDATA)>

<!ELEMENT ipv6-nd-information (ipv6-nd-entry)*>

<!ELEMENT ipv6-nd-interface-name (#PCDATA)>

<!ELEMENT ipv6-nd-isrouter (#PCDATA)>

<!ELEMENT ipv6-nd-issecure (#PCDATA)>

<!ELEMENT ipv6-nd-neighbor-address (#PCDATA)>

<!ELEMENT ipv6-nd-neighbor-l2-address (#PCDATA)>

<!ELEMENT ipv6-nd-state (#PCDATA)>

<!ELEMENT ipv6-nd-total (#PCDATA)>
```

Chapter 34

DTD for ISDN Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-isdnd.dtd, which lists the JUNOS XML tags that contain Integrated Services Digital Network (ISDN) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-isdnd. To review reference pages for the tags, see "Summary of ISDN Response Tags" on page 1080.

```
<!– Copyright (c) 2000-2008, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-isdnd.dtd –>

<!ELEMENT active-num-calls (#PCDATA)>

<!ELEMENT alerting-recv (#PCDATA)>

<!ELEMENT alerting-sent (#PCDATA)>

<!ELEMENT bc-interface-name (#PCDATA)>

<!ELEMENT call-direction (#PCDATA)>

<!ELEMENT call-duration (#PCDATA)>

<!ELEMENT call-proceed-recv (#PCDATA)>

<!ELEMENT call-proceed-sent (#PCDATA)>

<!ELEMENT call-status (#PCDATA)>

<!ELEMENT called-number (#PCDATA)>

<!ELEMENT calling-number (#PCDATA)>

<!ELEMENT ces-num (#PCDATA)>

<!ELEMENT ces-status (ces-num | layer2-status | tei-status | tei-assigned)*>

<!ELEMENT conn-ack-recv (#PCDATA)>

<!ELEMENT conn-ack-sent (#PCDATA)>

<!ELEMENT conn-recv (#PCDATA)>

<!ELEMENT conn-sent (#PCDATA)>
```

```
<!ELEMENT disc-frame-recv (#PCDATA)>

<!ELEMENT disc-frame-sent (#PCDATA)>

<!ELEMENT disc-recv (#PCDATA)>

<!ELEMENT disc-sent (#PCDATA)>

<!ELEMENT dm-frame-recv (#PCDATA)>

<!ELEMENT dm-frame-sent (#PCDATA)>

<!ELEMENT endpoint (ces-num | isdn-spid | endpoint-state | usid | tid)*>

<!ELEMENT endpoint-state (#PCDATA)>

<!ELEMENT endpoint-status (endpoint)*>

<!ELEMENT error-code (#PCDATA)>

<!ELEMENT frmr-frame-recv (#PCDATA)>

<!ELEMENT frmr-frame-sent (#PCDATA)>

<!ELEMENT info-frame-recv (#PCDATA)>

<!ELEMENT info-frame-sent (#PCDATA)>

<!ELEMENT info-recv (#PCDATA)>

<!ELEMENT info-sent (#PCDATA)>

<!ELEMENT isdn-call (bc-interface-name | call-status | error-code | call-duration |
call-direction | called-number | calling-number)*>

<!ELEMENT isdn-call-history (isdn-call)*>

<!ELEMENT isdn-calling-number (#PCDATA)>

<!ELEMENT isdn-calls (isdn-call)*>
<!ATTLIST isdn-calls junos:style CDATA #IMPLIED>

<!ELEMENT isdn-config-options (isdn-switch-type | isdn-interface-type |
isdn-calling-number | isdn-timer-t306 | isdn-timer-t310 | isdn-tei-option |
endpoint-status)*>

<!ELEMENT isdn-interface-name (#PCDATA)>

<!ELEMENT isdn-interface-type (#PCDATA)>

<!ELEMENT isdn-spid (#PCDATA)>

<!ELEMENT isdn-status (isdn-interface-name | layer1-status | q921-status |
q931-status)*>
<!ATTLIST isdn-status junos:style CDATA #IMPLIED>
```

```
<!ELEMENT isdn-switch-type (#PCDATA)>

<!ELEMENT isdn-tei-option (#PCDATA)>

<!ELEMENT isdn-timer-t306 (#PCDATA)>

<!ELEMENT isdn-timer-t310 (#PCDATA)>

<!ELEMENT layer1-status (#PCDATA)>

<!ELEMENT layer2-status (#PCDATA)>

<!ELEMENT notify-recv (#PCDATA)>

<!ELEMENT notify-sent (#PCDATA)>

<!ELEMENT progress-recv (#PCDATA)>

<!ELEMENT progress-sent (#PCDATA)>

<!ELEMENT q921-statistics (info-frame-sent | rr-frame-sent | rnr-frame-sent |
rej-frame-sent | sabme-frame-sent | disc-frame-sent | ua-frame-sent | dm-frame-sent |
frmr-frame-sent | xid-frame-sent | ui-frame-sent | info-frame-recv | rr-frame-recv |
rnr-frame-recv | rej-frame-recv | sabme-frame-recv | disc-frame-recv | ua-frame-recv |
dm-frame-recv | frmr-frame-recv | xid-frame-recv | ui-frame-recv)*>

<!ELEMENT q921-status (ces-status)*>

<!ELEMENT q931-statistics (alerting-sent | call-proceed-sent | conn-sent | conn-ack-sent
| progress-sent | setup-sent | setup-ack-sent | disc-sent | rel-sent | rel-cmplt-sent |
rst-sent | rst-ack-sent | info-sent | notify-sent | stat-sent | stat-enq-sent | alerting-recv |
call-proceed-recv | conn-recv | conn-ack-recv | progress-recv | setup-recv | setup-ack-recv
| disc-recv | rel-recv | rel-cmplt-recv | rst-recv | rst-ack-recv | info-recv | notify-recv |
stat-recv | stat-enq-recv)*>

<!ELEMENT q931-status (active-num-calls)*>

<!ELEMENT rej-frame-recv (#PCDATA)>

<!ELEMENT rej-frame-sent (#PCDATA)>

<!ELEMENT rel-cmplt-recv (#PCDATA)>

<!ELEMENT rel-cmplt-sent (#PCDATA)>

<!ELEMENT rel-recv (#PCDATA)>

<!ELEMENT rel-sent (#PCDATA)>

<!ELEMENT rnr-frame-recv (#PCDATA)>

<!ELEMENT rnr-frame-sent (#PCDATA)>

<!ELEMENT rr-frame-recv (#PCDATA)>

<!ELEMENT rr-frame-sent (#PCDATA)>
```

```
<!ELEMENT rst-ack-recv (#PCDATA)>
<!ELEMENT rst-ack-sent (#PCDATA)>
<!ELEMENT rst-recv (#PCDATA)>
<!ELEMENT rst-sent (#PCDATA)>
<!ELEMENT sabme-frame-recv (#PCDATA)>
<!ELEMENT sabme-frame-sent (#PCDATA)>
<!ELEMENT setup-ack-recv (#PCDATA)>
<!ELEMENT setup-ack-sent (#PCDATA)>
<!ELEMENT setup-recv (#PCDATA)>
<!ELEMENT setup-sent (#PCDATA)>
<!ELEMENT stat-enq-recv (#PCDATA)>
<!ELEMENT stat-enq-sent (#PCDATA)>
<!ELEMENT stat-recv (#PCDATA)>
<!ELEMENT stat-sent (#PCDATA)>
<!ELEMENT tei-assigned (#PCDATA)>
<!ELEMENT tei-status (#PCDATA)>
<!ELEMENT tid (#PCDATA)>
<!ELEMENT ua-frame-recv (#PCDATA)>
<!ELEMENT ua-frame-sent (#PCDATA)>
<!ELEMENT ui-frame-recv (#PCDATA)>
<!ELEMENT ui-frame-sent (#PCDATA)>
<!ELEMENT usid (#PCDATA)>
<!ELEMENT xid-frame-recv (#PCDATA)>
<!ELEMENT xid-frame-sent (#PCDATA)>
```

Chapter 35

DTD for JNX Example Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-jnx-example.dtd, which lists the JUNOS XML tags that contain JNX example information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-jnx-example. To review reference pages for the tags, see "Summary of ISDN Response Tags" on page 1080.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-jnx-example.dtd –>

<!ELEMENT cpu-usage (#PCDATA)>

<!ELEMENT jnx-example-data (jnx-example-data-name | jnx-example-data-description |
jnx-example-data-type | jnx-example-data-value)*>

<!ELEMENT jnx-example-data-description (#PCDATA)>

<!ELEMENT jnx-example-data-information (jnx-example-data)*>
<!ATTLIST jnx-example-data-information junos:style CDATA #IMPLIED>

<!ELEMENT jnx-example-data-name (#PCDATA)>

<!ELEMENT jnx-example-data-type (#PCDATA)>

<!ELEMENT jnx-example-data-value (#PCDATA)>

<!ELEMENT jnx-example-statistics (cpu-usage | memory-usage)*>

<!ELEMENT memory-usage (#PCDATA)>
```

Chapter 36

DTD for JDiameterd Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-jdiameterd.dtd, which lists the JUNOS XML tags that contain JDiametered function information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-jdiameterd. To review reference pages for the tags, see "Summary of JDiameterd Response Tags" on page 1091.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-jdiameterd.dtd –>

<!ELEMENT jdiameterd-function-brief (jdiameterd-function-name |
jdiameterd-function-state | jdiameterd-function-upstream-transaction-utilization |
jdiameterd-function-downstream-transaction-utilization |
jdiameterd-function-network-transmission-queue-memory-utilization |
jdiameterd-function-function-transmission-queue-memory-utilization |
jdiameterd-function-routed-dests)*>

<!ELEMENT jdiameterd-function-connection-count (#PCDATA)>

<!ELEMENT jdiameterd-function-data (jdiameterd-function-name |
jdiameterd-function-state | jdiameterd-function-upstream-transaction-utilization |
jdiameterd-function-downstream-transaction-utilization |
jdiameterd-function-network-transmission-queue-memory-utilization |
jdiameterd-function-function-transmission-queue-memory-utilization |
jdiameterd-function-routed-dests |
jdiameterd-function-network-transmission-queue-requests |
jdiameterd-function-expected-answers-from-network |
jdiameterd-function-function-transmission-queue-answers |
jdiameterd-function-upstream-transaction-count |
jdiameterd-function-upstream-transaction-limit |
jdiameterd-function-function-transmission-queue-requests |
jdiameterd-function-expected-answers-from-function |
jdiameterd-function-network-transmission-queue-answers |
jdiameterd-function-downstream-transaction-count |
jdiameterd-function-downstream-transaction-limit |
jdiameterd-function-network-transmission-queue-memory |
jdiameterd-function-network-transmission-queue-memory-limit |
jdiameterd-function-function-transmission-queue-memory |
jdiameterd-function-function-transmission-queue-memory-limit)*>

<!ELEMENT jdiameterd-function-downstream-transaction-count (#PCDATA)>

<!ELEMENT jdiameterd-function-downstream-transaction-limit (#PCDATA)>
```

<!ELEMENT jdiameterd-function-downstream-transaction-utilization (#PCDATA)>

<!ELEMENT jdiameterd-function-error (#PCDATA)>

<!ELEMENT jdiameterd-function-expected-answers-from-function (#PCDATA)>

<!ELEMENT jdiameterd-function-expected-answers-from-network (#PCDATA)>

<!ELEMENT jdiameterd-function-function-receive-answer-failures (#PCDATA)>

<!ELEMENT jdiameterd-function-function-receive-answer-failures-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-receive-message-failures (#PCDATA)>

<!ELEMENT jdiameterd-function-function-receive-message-failures-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-receive-request-failures (#PCDATA)>

<!ELEMENT jdiameterd-function-function-receive-request-failures-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-answers-forwarded (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-answers-forwarded-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-answers-over-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-answers-over-limit-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-messages-forwarded (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-messages-forwarded-total
(#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-messages-over-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-messages-over-limit-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-requests-forwarded (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-requests-forwarded-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-requests-over-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-function-received-requests-over-limit-total (#PCDATA)>

<!ELEMENT jdiameterd-function-function-transmission-queue-answers (#PCDATA)>

<!ELEMENT jdiameterd-function-function-transmission-queue-memory (#PCDATA)>

<!ELEMENT jdiameterd-function-function-transmission-queue-memory-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-function-transmission-queue-memory-utilization
(#PCDATA)>

<!ELEMENT jdiameterd-function-function-transmission-queue-requests (#PCDATA)>

```
<!ELEMENT jdiameterd-function-information (jdiameterd-function-list |
jdiameterd-function-brief | jdiameterd-function-data | jdiameterd-function-not-found |
jdiameterd-function-error)*>
<!ATTLIST jdiameterd-function-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-function-list (jdiameterd-function-name |
jdiameterd-function-state | jdiameterd-function-upstream-transaction-utilization |
jdiameterd-function-downstream-transaction-utilization |
jdiameterd-function-network-transmission-queue-memory-utilization |
jdiameterd-function-function-transmission-queue-memory-utilization |
jdiameterd-function-routed-dests)*>

<!ELEMENT jdiameterd-function-name (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-answer-deliveries (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-answer-deliveries-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-answer-delivery-fails (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-answer-delivery-fails-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-answers-over-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-answers-over-limit-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-message-deliveries (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-message-deliveries-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-message-delivery-fails (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-message-delivery-fails-total
(#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-messages-over-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-messages-over-limit-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-requests-deliveries (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-requests-deliveries-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-requests-delivery-fails (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-requests-delivery-fails-total
(#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-requests-over-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-network-received-requests-over-limit-total (#PCDATA)>

<!ELEMENT jdiameterd-function-network-transmission-queue-answers (#PCDATA)>

<!ELEMENT jdiameterd-function-network-transmission-queue-memory (#PCDATA)>

<!ELEMENT jdiameterd-function-network-transmission-queue-memory-limit (#PCDATA)>
```

```
<!ELEMENT jdiameterd-function-network-transmission-queue-memory-utilization
(#PCDATA)>

<!ELEMENT jdiameterd-function-network-transmission-queue-requests (#PCDATA)>

<!ELEMENT jdiameterd-function-not-found (#PCDATA)>

<!ELEMENT jdiameterd-function-routed-dests (#PCDATA)>

<!ELEMENT jdiameterd-function-state (#PCDATA)>

<!ELEMENT jdiameterd-function-statistics-brief (jdiameterd-function-name |
jdiameterd-function-connection-count |
jdiameterd-function-network-received-requests-deliveries |
jdiameterd-function-network-received-requests-deliveries-total |
jdiameterd-function-network-received-answer-deliveries |
jdiameterd-function-network-received-answer-deliveries-total |
jdiameterd-function-network-received-message-deliveries |
jdiameterd-function-network-received-message-deliveries-total |
jdiameterd-function-function-received-requests-forwarded |
jdiameterd-function-function-received-requests-forwarded-total |
jdiameterd-function-function-received-answers-forwarded |
jdiameterd-function-function-received-answers-forwarded-total |
jdiameterd-function-function-received-messages-forwarded |
jdiameterd-function-function-received-messages-forwarded-total)*>
```

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<!ELEMENT jdiameterd-function-statistics-data (jdiameterd-function-name |
jdiameterd-function-connection-count |
jdiameterd-function-network-received-requests-deliveries |
jdiameterd-function-network-received-requests-deliveries-total |
jdiameterd-function-network-received-answer-deliveries |
jdiameterd-function-network-received-answer-deliveries-total |
jdiameterd-function-network-received-message-deliveries |
jdiameterd-function-network-received-message-deliveries-total |
jdiameterd-function-function-received-requests-forwarded |
jdiameterd-function-function-received-requests-forwarded-total |
jdiameterd-function-function-received-answers-forwarded |
jdiameterd-function-function-received-answers-forwarded-total |
jdiameterd-function-function-received-messages-forwarded |
jdiameterd-function-function-received-messages-forwarded-total |
jdiameterd-function-network-received-requests-over-limit |
jdiameterd-function-network-received-requests-over-limit-total |
jdiameterd-function-network-received-answers-over-limit |
jdiameterd-function-network-received-answers-over-limit-total |
jdiameterd-function-network-received-messages-over-limit |
jdiameterd-function-network-received-messages-over-limit-total |
jdiameterd-function-network-received-requests-delivery-fails |
jdiameterd-function-network-received-requests-delivery-fails-total |
jdiameterd-function-network-received-answer-delivery-fails |
jdiameterd-function-network-received-answer-delivery-fails-total |
jdiameterd-function-network-received-message-delivery-fails |
jdiameterd-function-network-received-message-delivery-fails-total |
jdiameterd-function-function-received-requests-over-limit |
jdiameterd-function-function-received-requests-over-limit-total |
jdiameterd-function-function-received-answers-over-limit |
jdiameterd-function-function-received-answers-over-limit-total |
jdiameterd-function-function-received-messages-over-limit |
jdiameterd-function-function-received-messages-over-limit-total |
jdiameterd-function-function-receive-request-failures |
jdiameterd-function-function-receive-request-failures-total |
jdiameterd-function-function-receive-answer-failures |
jdiameterd-function-function-receive-answer-failures-total |
jdiameterd-function-function-receive-message-failures |
jdiameterd-function-function-receive-message-failures-total)*>

<!ELEMENT jdiameterd-function-statistics-error (#PCDATA)>

<!ELEMENT jdiameterd-function-statistics-information (jdiameterd-function-statistics-list
| jdiameterd-function-statistics-brief | jdiameterd-function-statistics-data |
jdiameterd-function-statistics-not-found | jdiameterd-function-statistics-error)*>
<!ATTLIST jdiameterd-function-statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-function-statistics-list (jdiameterd-function-name |
jdiameterd-function-network-received-requests-deliveries |
jdiameterd-function-network-received-answer-deliveries |
jdiameterd-function-network-received-message-deliveries |
jdiameterd-function-function-received-requests-forwarded |
jdiameterd-function-function-received-answers-forwarded |
jdiameterd-function-function-received-messages-forwarded)*>

<!ELEMENT jdiameterd-function-statistics-not-found (#PCDATA)>

<!ELEMENT jdiameterd-function-upstream-transaction-count (#PCDATA)>
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<!ELEMENT jdiameterd-function-upstream-transaction-limit (#PCDATA)>

<!ELEMENT jdiameterd-function-upstream-transaction-utilization (#PCDATA)>

<!ELEMENT jdiameterd-instance-brief (jdiameterd-instance-name |
jdiameterd-instance-origin-realm | jdiameterd-instance-origin-host |
jdiameterd-instance-total-network-elements |
jdiameterd-instance-connected-network-elements)*>

<!ELEMENT jdiameterd-instance-connected-network-elements (#PCDATA)>

<!ELEMENT jdiameterd-instance-error (#PCDATA)>

<!ELEMENT jdiameterd-instance-information (jdiameterd-instance-list |
jdiameterd-instance-brief | jdiameterd-instance-not-found | jdiameterd-instance-error)*>
<!ATTLIST jdiameterd-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-instance-list (jdiameterd-instance-name |
jdiameterd-instance-origin-realm | jdiameterd-instance-origin-host |
jdiameterd-instance-total-network-elements |
jdiameterd-instance-connected-network-elements)*>

<!ELEMENT jdiameterd-instance-name (#PCDATA)>

<!ELEMENT jdiameterd-instance-not-found (#PCDATA)>

<!ELEMENT jdiameterd-instance-origin-host (#PCDATA)>

<!ELEMENT jdiameterd-instance-origin-realm (#PCDATA)>

<!ELEMENT jdiameterd-instance-total-network-elements (#PCDATA)>

<!ELEMENT jdiameterd-network-element-activated-peers (#PCDATA)>

<!ELEMENT jdiameterd-network-element-brief (jdiameterd-network-element-name |
jdiameterd-network-element-instance-name | jdiameterd-network-element-state |
jdiameterd-network-element-primary-peer |
jdiameterd-network-element-secondary-peer)*>

<!ELEMENT jdiameterd-network-element-data (jdiameterd-network-element-name |
jdiameterd-network-element-instance-name | jdiameterd-network-element-state |
jdiameterd-network-element-primary-peer | jdiameterd-network-element-secondary-peer |
jdiameterd-network-element-total-peers | jdiameterd-network-element-activated-peers |
jdiameterd-network-element-open-peers | jdiameterd-network-element-total-routes |
jdiameterd-network-element-invalid-routes |
jdiameterd-network-element-peer-activation-delay |
jdiameterd-network-element-first-selection-delay |
jdiameterd-network-element-post-selection-delay)*>

<!ELEMENT jdiameterd-network-element-error (#PCDATA)>

<!ELEMENT jdiameterd-network-element-first-selection-delay (#PCDATA)>

<!ELEMENT jdiameterd-network-element-information (jdiameterd-network-element-list |
jdiameterd-network-element-brief | jdiameterd-network-element-data |
jdiameterd-network-element-not-found | jdiameterd-network-element-error)*>
```

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<!ATTLIST jdiameterd-network-element-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-network-element-instance-name (#PCDATA)>

<!ELEMENT jdiameterd-network-element-invalid-routes (#PCDATA)>

<!ELEMENT jdiameterd-network-element-list (jdiameterd-network-element-name |
jdiameterd-network-element-instance-name | jdiameterd-network-element-state |
jdiameterd-network-element-primary-peer |
jdiameterd-network-element-secondary-peer)*>

<!ELEMENT jdiameterd-network-element-map-data (jdiameterd-network-element-name |
jdiameterd-network-element-instance-name | jdiameterd-network-element-peer-name |
jdiameterd-network-element-peer-priority | jdiameterd-network-element-peer-usage)*>

<!ELEMENT jdiameterd-network-element-map-error (#PCDATA)>

<!ELEMENT jdiameterd-network-element-map-information
(jdiameterd-network-element-map-list | jdiameterd-network-element-map-data |
jdiameterd-network-element-map-not-found | jdiameterd-network-element-map-error)*>
<!ATTLIST jdiameterd-network-element-map-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-network-element-map-list (jdiameterd-network-element-name |
jdiameterd-network-element-instance-name | jdiameterd-network-element-peer-name |
jdiameterd-network-element-peer-priority | jdiameterd-network-element-peer-usage)*>

<!ELEMENT jdiameterd-network-element-map-not-found (#PCDATA)>

<!ELEMENT jdiameterd-network-element-name (#PCDATA)>

<!ELEMENT jdiameterd-network-element-not-found (#PCDATA)>

<!ELEMENT jdiameterd-network-element-open-peers (#PCDATA)>

<!ELEMENT jdiameterd-network-element-peer-activation-delay (#PCDATA)>

<!ELEMENT jdiameterd-network-element-peer-name (#PCDATA)>

<!ELEMENT jdiameterd-network-element-peer-priority (#PCDATA)>

<!ELEMENT jdiameterd-network-element-peer-usage (#PCDATA)>

<!ELEMENT jdiameterd-network-element-post-selection-delay (#PCDATA)>

<!ELEMENT jdiameterd-network-element-primary-peer (#PCDATA)>

<!ELEMENT jdiameterd-network-element-secondary-peer (#PCDATA)>

<!ELEMENT jdiameterd-network-element-state (#PCDATA)>

<!ELEMENT jdiameterd-network-element-total-peers (#PCDATA)>

<!ELEMENT jdiameterd-network-element-total-routes (#PCDATA)>

<!ELEMENT jdiameterd-node-activated-peers (#PCDATA)>

<!ELEMENT jdiameterd-node-connected-functions (#PCDATA)>
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<!ELEMENT jdiameterd-node-connected-network-elements (#PCDATA)>

<!ELEMENT jdiameterd-node-expected-answers-from-function (#PCDATA)>

<!ELEMENT jdiameterd-node-expected-answers-from-network (#PCDATA)>

<!ELEMENT jdiameterd-node-function-transmission-queue-answers (#PCDATA)>

<!ELEMENT jdiameterd-node-function-transmission-queue-memory (#PCDATA)>

<!ELEMENT jdiameterd-node-function-transmission-queue-requests (#PCDATA)>

<!ELEMENT jdiameterd-node-information (jdiameterd-node-summary |
jdiameterd-function-list | jdiameterd-instance-list | jdiameterd-network-element-list |
jdiameterd-peer-list | jdiameterd-route-list)*>
<!ATTLIST jdiameterd-node-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-node-instances (#PCDATA)>

<!ELEMENT jdiameterd-node-network-transmission-queue-answers (#PCDATA)>

<!ELEMENT jdiameterd-node-network-transmission-queue-memory (#PCDATA)>

<!ELEMENT jdiameterd-node-network-transmission-queue-requests (#PCDATA)>

<!ELEMENT jdiameterd-node-open-peers (#PCDATA)>

<!ELEMENT jdiameterd-node-pid (#PCDATA)>

<!ELEMENT jdiameterd-node-summary (jdiameterd-node-pid |
jdiameterd-node-total-functions | jdiameterd-node-connected-functions |
jdiameterd-node-instances | jdiameterd-node-total-network-elements |
jdiameterd-node-connected-network-elements | jdiameterd-node-total-peers |
jdiameterd-node-activated-peers | jdiameterd-node-open-peers |
jdiameterd-node-total-transports |
jdiameterd-node-network-transmission-queue-requests |
jdiameterd-node-network-transmission-queue-answers |
jdiameterd-node-expected-answers-from-network |
jdiameterd-node-function-transmission-queue-requests |
jdiameterd-node-function-transmission-queue-answers |
jdiameterd-node-expected-answers-from-function |
jdiameterd-node-network-transmission-queue-memory |
jdiameterd-node-function-transmission-queue-memory)*>

<!ELEMENT jdiameterd-node-total-functions (#PCDATA)>

<!ELEMENT jdiameterd-node-total-network-elements (#PCDATA)>

<!ELEMENT jdiameterd-node-total-peers (#PCDATA)>

<!ELEMENT jdiameterd-node-total-transports (#PCDATA)>

<!ELEMENT jdiameterd-peer-activated-count (#PCDATA)>

<!ELEMENT jdiameterd-peer-active-connection-terminations (#PCDATA)>
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<!ELEMENT jdiameterd-peer-active-connection-terminations-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-active-disconnects (#PCDATA)>

<!ELEMENT jdiameterd-peer-active-disconnects-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-answer-count (#PCDATA)>

<!ELEMENT jdiameterd-peer-brief (jdiameterd-peer-name | jdiameterd-instance-name |
jdiameterd-peer-state | jdiameterd-peer-network-element-count |
jdiameterd-peer-activated-count | jdiameterd-peer-primary-count |
jdiameterd-peer-secondary-count | jdiameterd-peer-vrf | jdiameterd-peer-remote-address
| jdiameterd-peer-remote-port | jdiameterd-peer-remote-realm |
jdiameterd-peer-remote-host)*>

<!ELEMENT jdiameterd-peer-cea-received (#PCDATA)>

<!ELEMENT jdiameterd-peer-cea-received-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-cea-transmitted (#PCDATA)>

<!ELEMENT jdiameterd-peer-cea-transmitted-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-cer-received (#PCDATA)>

<!ELEMENT jdiameterd-peer-cer-received-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-cer-transmitted (#PCDATA)>

<!ELEMENT jdiameterd-peer-cer-transmitted-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-closed-timeout (#PCDATA)>

<!ELEMENT jdiameterd-peer-connect-timeout (#PCDATA)>

<!ELEMENT jdiameterd-peer-connection-attempts (#PCDATA)>

<!ELEMENT jdiameterd-peer-connection-attempts-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-connection-failures (#PCDATA)>

<!ELEMENT jdiameterd-peer-connection-failures-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-connection-successes (#PCDATA)>

<!ELEMENT jdiameterd-peer-connection-successes-total (#PCDATA)>
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<!ELEMENT jdiameterd-peer-data (jdiameterd-peer-name | jdiameterd-instance-name | jdiameterd-peer-state | jdiameterd-peer-network-element-count | jdiameterd-peer-activated-count | jdiameterd-peer-primary-count | jdiameterd-peer-secondary-count | jdiameterd-peer-vrf | jdiameterd-peer-remote-address | jdiameterd-peer-remote-port | jdiameterd-peer-remote-realm | jdiameterd-peer-remote-host | jdiameterd-peer-local-address | jdiameterd-peer-local-port | jdiameterd-peer-local-transport | jdiameterd-peer-post-enable-time | jdiameterd-peer-in-state-time | jdiameterd-peer-in-state-remain-time | jdiameterd-peer-missed-watch-dogs | jdiameterd-peer-transmission-queue-length | jdiameterd-peer-answer-count | jdiameterd-peer-post-rx-time | jdiameterd-peer-post-rx-remain | jdiameterd-peer-op-timeout | jdiameterd-peer-suspended-timeout | jdiameterd-peer-closed-timeout | jdiameterd-peer-connect-timeout)*>

<!ELEMENT jdiameterd-peer-dpa-received (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpa-received-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpa-transmitted (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpa-transmitted-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpr-received (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpr-received-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpr-transmitted (#PCDATA)>

<!ELEMENT jdiameterd-peer-dpr-transmitted-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwa-received (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwa-received-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwa-transmitted (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwa-transmitted-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwr-received (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwr-received-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwr-transmitted (#PCDATA)>

<!ELEMENT jdiameterd-peer-dwr-transmitted-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-error (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarded-messages (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarded-messages-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-dropped-messages (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-dropped-messages-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-failures (#PCDATA)>

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<!ELEMENT jdiameterd-peer-forwarding-failures-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-moved-in-messages (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-moved-in-messages-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-moved-out-messages (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-moved-out-messages-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-rerouted-messages (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-rerouted-messages-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-successes (#PCDATA)>

<!ELEMENT jdiameterd-peer-forwarding-successes-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-in-state-remain-time (#PCDATA)>
<!ATTLIST jdiameterd-peer-in-state-remain-time junos:seconds CDATA #IMPLIED>

<!ELEMENT jdiameterd-peer-in-state-time (#PCDATA)>
<!ATTLIST jdiameterd-peer-in-state-time junos:seconds CDATA #IMPLIED>

<!ELEMENT jdiameterd-peer-information (jdiameterd-peer-list | jdiameterd-peer-brief |
jdiameterd-peer-data | jdiameterd-peer-not-found | jdiameterd-peer-error)*>
<!ATTLIST jdiameterd-peer-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-peer-instance-name (#PCDATA)>

<!ELEMENT jdiameterd-peer-list (jdiameterd-peer-name | jdiameterd-peer-instance-name
| jdiameterd-peer-state | jdiameterd-peer-network-element-count |
jdiameterd-peer-activated-count | jdiameterd-peer-primary-count |
jdiameterd-peer-secondary-count)*>

<!ELEMENT jdiameterd-peer-local-address (#PCDATA)>

<!ELEMENT jdiameterd-peer-local-port (#PCDATA)>

<!ELEMENT jdiameterd-peer-local-transport (#PCDATA)>

<!ELEMENT jdiameterd-peer-map-data (jdiameterd-peer-name |
jdiameterd-peer-instance-name | jdiameterd-peer-network-element-name |
jdiameterd-peer-network-element-priority | jdiameterd-peer-network-element-usage)*>

<!ELEMENT jdiameterd-peer-map-error (#PCDATA)>

<!ELEMENT jdiameterd-peer-map-information (jdiameterd-peer-map-list |
jdiameterd-peer-map-data | jdiameterd-peer-map-not-found |
jdiameterd-peer-map-error)*>
<!ATTLIST jdiameterd-peer-map-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-peer-map-list (jdiameterd-peer-name |
jdiameterd-peer-instance-name | jdiameterd-peer-network-element-name |
jdiameterd-peer-network-element-priority | jdiameterd-peer-network-element-usage)*>
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<!ELEMENT jdiameterd-peer-map-not-found (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-forwarded-to-peer (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-forwarded-to-peer-connection (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-forwarded-to-peer-connection-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-forwarded-to-peer-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-forwarded-to-routed-destination (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-forwarded-to-routed-destination-total
(#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-transmitted-by-self (#PCDATA)>

<!ELEMENT jdiameterd-peer-messages-transmitted-by-self-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-missed-watch-dogs (#PCDATA)>

<!ELEMENT jdiameterd-peer-name (#PCDATA)>

<!ELEMENT jdiameterd-peer-network-element-count (#PCDATA)>

<!ELEMENT jdiameterd-peer-network-element-name (#PCDATA)>

<!ELEMENT jdiameterd-peer-network-element-priority (#PCDATA)>

<!ELEMENT jdiameterd-peer-network-element-usage (#PCDATA)>

<!ELEMENT jdiameterd-peer-not-found (#PCDATA)>

<!ELEMENT jdiameterd-peer-op-timeout (#PCDATA)>

<!ELEMENT jdiameterd-peer-passive-connection-terminations (#PCDATA)>

<!ELEMENT jdiameterd-peer-passive-connection-terminations-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-passive-disconnects (#PCDATA)>

<!ELEMENT jdiameterd-peer-passive-disconnects-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-post-enable-time (#PCDATA)>
<!ATTLIST jdiameterd-peer-post-enable-time junos:seconds CDATA #IMPLIED>

<!ELEMENT jdiameterd-peer-post-rx-remain (#PCDATA)>

<!ELEMENT jdiameterd-peer-post-rx-time (#PCDATA)>

<!ELEMENT jdiameterd-peer-primary-count (#PCDATA)>

<!ELEMENT jdiameterd-peer-receive-answers-dropped (#PCDATA)>

<!ELEMENT jdiameterd-peer-receive-answers-dropped-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-receive-blocking-requests (#PCDATA)>
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<!ELEMENT jdiameterd-peer-receive-blocking-requests-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-blocking-timeouts (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-blocking-timeouts-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-errors (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-errors-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-messages-delivered-to-node (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-messages-delivered-to-node-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-messages-dropped (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-messages-dropped-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-messages-handled-by-peer (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-messages-handled-by-peer-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-successes (#PCDATA)>
<!ELEMENT jdiameterd-peer-receive-successes-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-received-answers (#PCDATA)>
<!ELEMENT jdiameterd-peer-received-answers-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-received-requests (#PCDATA)>
<!ELEMENT jdiameterd-peer-received-requests-total (#PCDATA)>
<!ELEMENT jdiameterd-peer-remote-address (#PCDATA)>
<!ELEMENT jdiameterd-peer-remote-host (#PCDATA)>
<!ELEMENT jdiameterd-peer-remote-port (#PCDATA)>
<!ELEMENT jdiameterd-peer-remote-realm (#PCDATA)>
<!ELEMENT jdiameterd-peer-secondary-count (#PCDATA)>
<!ELEMENT jdiameterd-peer-state (#PCDATA)>
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<!ELEMENT jdiameterd-peer-statistics-brief (jdiameterd-peer-name |
jdiameterd-peer-instance-name | jdiameterd-peer-receive-errors |
jdiameterd-peer-receive-successes | jdiameterd-peer-receive-messages-handled-by-peer
| jdiameterd-peer-receive-messages-dropped | jdiameterd-peer-receive-answers-dropped
| jdiameterd-peer-received-answers | jdiameterd-peer-received-requests |
jdiameterd-peer-receive-messages-delivered-to-node |
jdiameterd-peer-receive-errors-total | jdiameterd-peer-receive-successes-total |
jdiameterd-peer-receive-messages-handled-by-peer-total |
jdiameterd-peer-receive-messages-dropped-total |
jdiameterd-peer-receive-answers-dropped-total | jdiameterd-peer-received-answers-total |
jdiameterd-peer-received-requests-total |
jdiameterd-peer-receive-messages-delivered-to-node-total |
jdiameterd-peer-messages-forwarded-to-peer-connection |
jdiameterd-peer-messages-forwarded-to-peer |
jdiameterd-peer-messages-forwarded-to-routed-destination |
jdiameterd-peer-forwarded-messages | jdiameterd-peer-forwarding-failures |
jdiameterd-peer-forwarding-successes | jdiameterd-peer-forwarding-moved-in-messages
| jdiameterd-peer-forwarding-moved-out-messages |
jdiameterd-peer-forwarding-rerouted-messages |
jdiameterd-peer-forwarding-dropped-messages |
jdiameterd-peer-messages-transmitted-by-self | jdiameterd-peer-transmit-errors |
jdiameterd-peer-transmit-successes |
jdiameterd-peer-messages-forwarded-to-peer-connection-total |
jdiameterd-peer-messages-forwarded-to-peer-total |
jdiameterd-peer-messages-forwarded-to-routed-destination-total |
jdiameterd-peer-forwarded-messages-total | jdiameterd-peer-forwarding-failures-total |
jdiameterd-peer-forwarding-successes-total |
jdiameterd-peer-forwarding-moved-in-messages-total |
jdiameterd-peer-forwarding-moved-out-messages-total |
jdiameterd-peer-forwarding-rerouted-messages-total |
jdiameterd-peer-forwarding-dropped-messages-total |
jdiameterd-peer-messages-transmitted-by-self-total |
jdiameterd-peer-transmit-errors-total | jdiameterd-peer-transmit-successes-total |
jdiameterd-peer-connection-attempts | jdiameterd-peer-connection-failures |
jdiameterd-peer-connection-successes |
jdiameterd-peer-passive-connection-terminations |
jdiameterd-peer-active-connection-terminations | jdiameterd-peer-passive-disconnects |
jdiameterd-peer-active-disconnects | jdiameterd-peer-connection-attempts-total |
jdiameterd-peer-connection-failures-total | jdiameterd-peer-connection-successes-total |
jdiameterd-peer-passive-connection-terminations-total |
jdiameterd-peer-active-connection-terminations-total |
jdiameterd-peer-passive-disconnects-total | jdiameterd-peer-active-disconnects-total |
jdiameterd-peer-receive-blocking-requests | jdiameterd-peer-receive-blocking-timeouts |
jdiameterd-peer-receive-blocking-requests-total |
jdiameterd-peer-receive-blocking-timeouts-total)*>
```

```
<!ELEMENT jdiameterd-peer-statistics-data (jdiameterd-peer-receive-errors |
jdiameterd-peer-receive-successes | jdiameterd-peer-receive-messages-handled-by-peer
| jdiameterd-peer-receive-messages-dropped | jdiameterd-peer-receive-answers-dropped
| jdiameterd-peer-received-answers | jdiameterd-peer-received-requests |
jdiameterd-peer-receive-messages-delivered-to-node |
jdiameterd-peer-receive-errors-total | jdiameterd-peer-receive-successes-total |
jdiameterd-peer-receive-messages-handled-by-peer-total |
jdiameterd-peer-receive-messages-dropped-total |
jdiameterd-peer-receive-answers-dropped-total | jdiameterd-peer-received-answers-total |
jdiameterd-peer-received-requests-total |
jdiameterd-peer-receive-messages-delivered-to-node-total |
jdiameterd-peer-messages-forwarded-to-peer-connection |
jdiameterd-peer-messages-forwarded-to-peer |
jdiameterd-peer-messages-forwarded-to-routed-destination |
jdiameterd-peer-forwarded-messages | jdiameterd-peer-forwarding-failures |
jdiameterd-peer-forwarding-successes | jdiameterd-peer-forwarding-moved-in-messages
| jdiameterd-peer-forwarding-moved-out-messages |
jdiameterd-peer-forwarding-rerouted-messages |
jdiameterd-peer-forwarding-dropped-messages |
jdiameterd-peer-messages-transmitted-by-self | jdiameterd-peer-transmit-errors |
jdiameterd-peer-transmit-successes |
jdiameterd-peer-messages-forwarded-to-peer-connection-total |
jdiameterd-peer-messages-forwarded-to-peer-total |
jdiameterd-peer-messages-forwarded-to-routed-destination-total |
jdiameterd-peer-forwarded-messages-total | jdiameterd-peer-forwarding-failures-total |
jdiameterd-peer-forwarding-successes-total |
jdiameterd-peer-forwarding-moved-in-messages-total |
jdiameterd-peer-forwarding-moved-out-messages-total |
jdiameterd-peer-forwarding-rerouted-messages-total |
jdiameterd-peer-forwarding-dropped-messages-total |
jdiameterd-peer-messages-transmitted-by-self-total |
jdiameterd-peer-transmit-errors-total | jdiameterd-peer-transmit-successes-total |
jdiameterd-peer-connection-attempts | jdiameterd-peer-connection-failures |
jdiameterd-peer-connection-successes |
jdiameterd-peer-passive-connection-terminations |
jdiameterd-peer-active-connection-terminations | jdiameterd-peer-passive-disconnects |
jdiameterd-peer-active-disconnects | jdiameterd-peer-connection-attempts-total |
jdiameterd-peer-connection-failures-total | jdiameterd-peer-connection-successes-total |
jdiameterd-peer-passive-connection-terminations-total |
jdiameterd-peer-active-connection-terminations-total |
jdiameterd-peer-passive-disconnects-total | jdiameterd-peer-active-disconnects-total |
jdiameterd-peer-receive-blocking-requests | jdiameterd-peer-receive-blocking-timeouts |
jdiameterd-peer-receive-blocking-requests-total |
jdiameterd-peer-receive-blocking-timeouts-total | jdiameterd-peer-cer-transmitted |
jdiameterd-peer-cer-received | jdiameterd-peer-cea-transmitted |
jdiameterd-peer-cea-received | jdiameterd-peer-dwr-transmitted |
jdiameterd-peer-dwr-received | jdiameterd-peer-dwa-transmitted |
jdiameterd-peer-dwa-received | jdiameterd-peer-dpr-transmitted |
jdiameterd-peer-dpr-received | jdiameterd-peer-dpa-transmitted |
jdiameterd-peer-dpa-received | jdiameterd-peer-cer-transmitted-total |
jdiameterd-peer-cer-received-total | jdiameterd-peer-cea-transmitted-total |
jdiameterd-peer-cea-received-total | jdiameterd-peer-dwr-transmitted-total |
jdiameterd-peer-dwr-received-total | jdiameterd-peer-dwa-transmitted-total |
jdiameterd-peer-dwa-received-total | jdiameterd-peer-dpr-transmitted-total |
jdiameterd-peer-dpr-received-total | jdiameterd-peer-dpa-transmitted-total |
jdiameterd-peer-dpa-received-total)*>
```

```
<!ELEMENT jdiameterd-peer-statistics-error (#PCDATA)>

<!ELEMENT jdiameterd-peer-statistics-information (jdiameterd-peer-statistics-list |
jdiameterd-peer-statistics-brief | jdiameterd-peer-statistics-data |
jdiameterd-peer-statistics-not-found | jdiameterd-peer-statistics-error)*>
<!ATTLIST jdiameterd-peer-statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-peer-statistics-list (jdiameterd-peer-name |
jdiameterd-peer-instance-name | jdiameterd-peer-receive-successes |
jdiameterd-peer-receive-messages-handled-by-peer |
jdiameterd-peer-receive-messages-delivered-to-node |
jdiameterd-peer-forwarding-successes | jdiameterd-peer-messages-transmitted-by-self |
jdiameterd-peer-transmit-successes)*>

<!ELEMENT jdiameterd-peer-statistics-not-found (#PCDATA)>

<!ELEMENT jdiameterd-peer-suspended-timeout (#PCDATA)>

<!ELEMENT jdiameterd-peer-transmission-queue-length (#PCDATA)>

<!ELEMENT jdiameterd-peer-transmit-errors (#PCDATA)>

<!ELEMENT jdiameterd-peer-transmit-errors-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-transmit-successes (#PCDATA)>

<!ELEMENT jdiameterd-peer-transmit-successes-total (#PCDATA)>

<!ELEMENT jdiameterd-peer-vrf (#PCDATA)>

<!ELEMENT jdiameterd-route-brief (jdiameterd-route-name |
jdiameterd-route-network-element-name | jdiameterd-route-instance-name |
jdiameterd-route-valid | jdiameterd-route-up)*>

<!ELEMENT jdiameterd-route-data (jdiameterd-route-name |
jdiameterd-route-network-element-name | jdiameterd-route-instance-name |
jdiameterd-route-valid | jdiameterd-route-up | jdiameterd-route-function |
jdiameterd-route-function-part | jdiameterd-route-dest-realm | jdiameterd-route-dest-host
| jdiameterd-route-metric | jdiameterd-route-score)*>

<!ELEMENT jdiameterd-route-dest-host (#PCDATA)>

<!ELEMENT jdiameterd-route-dest-realm (#PCDATA)>

<!ELEMENT jdiameterd-route-error (#PCDATA)>

<!ELEMENT jdiameterd-route-function (#PCDATA)>

<!ELEMENT jdiameterd-route-function-part (#PCDATA)>

<!ELEMENT jdiameterd-route-information (jdiameterd-route-list | jdiameterd-route-brief |
jdiameterd-route-data | jdiameterd-route-not-found | jdiameterd-route-error)*>
<!ATTLIST jdiameterd-route-information junos:style CDATA #IMPLIED>

<!ELEMENT jdiameterd-route-instance-name (#PCDATA)>
```

```
<!ELEMENT jdiameterd-route-list (jdiameterd-route-name |
jdiameterd-route-network-element-name | jdiameterd-route-instance-name |
jdiameterd-route-valid | jdiameterd-route-up)*>

<!ELEMENT jdiameterd-route-metric (#PCDATA)>

<!ELEMENT jdiameterd-route-name (#PCDATA)>

<!ELEMENT jdiameterd-route-network-element-name (#PCDATA)>

<!ELEMENT jdiameterd-route-not-found (#PCDATA)>

<!ELEMENT jdiameterd-route-score (#PCDATA)>

<!ELEMENT jdiameterd-route-up (#PCDATA)>

<!ELEMENT jdiameterd-route-valid (#PCDATA)>
```

Chapter 37

DTD for J20 GGSN Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-ggsn.dtd, which lists the JUNOS XML tags that contain J20 gateway GPRS support node (GGSN) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ggsn. To review reference pages for the tags, see "Summary of J20 GGSN Response Tags" on page 1149.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-ggsn.dtd –>

<!ELEMENT accounting-failure (#PCDATA)>

<!ELEMENT activation-bearer-ctrl-accept (#PCDATA)>

<!ELEMENT activation-bearer-ctrl-downgrade (#PCDATA)>

<!ELEMENT activation-bearer-ctrl-reject (#PCDATA)>

<!ELEMENT activation-bearer-ctrl-upgrade (#PCDATA)>

<!ELEMENT activation-no-bearer-ctrl-accept (#PCDATA)>

<!ELEMENT activation-no-bearer-ctrl-downgrade (#PCDATA)>

<!ELEMENT activation-no-bearer-ctrl-reject (#PCDATA)>

<!ELEMENT active-predifened-charging-rulbases (#PCDATA)>

<!ELEMENT active-predifened-charging-rules (#PCDATA)>

<!ELEMENT active-sessions (#PCDATA)>

<!ELEMENT active-time (#PCDATA)>

<!ELEMENT active-tunnels (#PCDATA)>

<!ELEMENT address (#PCDATA)>

<!ELEMENT apn-name (#PCDATA)>

<!ELEMENT apn-pdp-context-deletion-results (apn-name | user-category |
interface-pdp-context-deletion-information)*>
```

<!ELEMENT apn-statistics (name | pdp-context-statistics | gtp-error-statistics | uplink | downlink | ggsn-pdp-per-user-category | radius-statistics-information | rulespace-based-charging-statistics | signalling | tft-filter-count | neighbor-solicitation-req-received | neighbor-solicitation-req-responded | router-solicitation-req-received | router-solicitation-req-responded)*>

<!ELEMENT apn-statistics-information (apn-statistics | sbcc-statistics-information | service-based-charging-for-gx)*>

<!ELEMENT authentication-failure (#PCDATA)>

<!ELEMENT authorization-discard-information (authorization-discard-statistics)*>

<!ELEMENT authorization-discard-statistics (service-class-source | packets | bytes)*>

<!ELEMENT authorization-failure (#PCDATA)>

<!ELEMENT billing-gateway (address | time-connected)*>

<!ELEMENT bytes (#PCDATA)>

<!ELEMENT bytes-ipv6 (#PCDATA)>

<!ELEMENT call-trace (imsi | msisdn | time-started | nsapi-information)*>

<!ELEMENT call-trace-information (number-enabled | number-active | call-trace)*>

<!ELEMENT ccas-authorization-failure (#PCDATA)>

<!ELEMENT ccas-cc-not-applicable (#PCDATA)>

<!ELEMENT ccas-identifier (#PCDATA)>

<!ELEMENT ccas-information (ccas-statistics)*>

<!ELEMENT ccas-start-request (#PCDATA)>

<!ELEMENT ccas-start-request-failed (#PCDATA)>

<!ELEMENT ccas-statistics (ccas-identifier | ccas-start-request | ccas-start-request-failed | ccas-update-request | ccas-update-request-failed | ccas-stop-request | ccas-stop-request-failed | ccas-user-service-denied | ccas-user-unknown | ccas-authorization-failure | ccas-cc-not-applicable)*>

<!ELEMENT ccas-stop-request (#PCDATA)>

<!ELEMENT ccas-stop-request-failed (#PCDATA)>

<!ELEMENT ccas-update-request (#PCDATA)>

<!ELEMENT ccas-update-request-failed (#PCDATA)>

<!ELEMENT ccas-user-service-denied (#PCDATA)>

<!ELEMENT ccas-user-unknown (#PCDATA)>

<!ELEMENT ccr-identifier (#PCDATA)>

<!ELEMENT ccr-statistics (ccr-identifier | authorization-failure | authentication-failure | session-failure)*>

<!ELEMENT charging-identifier (#PCDATA)>

<!ELEMENT charging-statistics-information (encoded-cdrs | failed-encoded-cdrs | generated-ftp-cdrs | generated-gtpp-cdrs | gtpp-log-cdrs | gtpp-send-attempted-cdrs | gtpp-send-failed-cdrs)*>

<!ELEMENT control-rx-packets (#PCDATA)>

<!ELEMENT control-tx-packets (#PCDATA)>

<!ELEMENT cpu-id (#PCDATA)>

<!ELEMENT cpu-info (cpu-id | cpu-load)*>

<!ELEMENT cpu-load (#PCDATA)>

<!ELEMENT create-request-received (#PCDATA)>

<!ELEMENT create-response-transmitted (#PCDATA)>

<!ELEMENT created-tunnels (#PCDATA)>

<!ELEMENT credit-start-request-attempted (#PCDATA)>

<!ELEMENT credit-start-request-failed (#PCDATA)>

<!ELEMENT credit-stop-request-attempted (#PCDATA)>

<!ELEMENT credit-stop-request-failed (#PCDATA)>

<!ELEMENT credit-update-request-attempted (#PCDATA)>

<!ELEMENT credit-update-request-failed (#PCDATA)>

<!ELEMENT daemon-name (#PCDATA)>

<!ELEMENT das-identifier (#PCDATA)>

<!ELEMENT das-information (das-statistics)*>

<!ELEMENT das-statistics (das-identifier | request)*>

<!ELEMENT data-record-transfer-statistics (request-transmitted | response-received | request-accepted | error-no-resources | error-service-unsupported | error-system-failure | error-invalid-request-format | error-version-unsupported | error-request-unfulfilled | error-decoding-error | error-already-fulfilled | error-duplicate-packet-fulfilled | send-data-record-packet)*>

<!ELEMENT data-rx-packets (#PCDATA)>

<!ELEMENT data-tx-packets (#PCDATA)>

<!ELEMENT default-apn-invalid (#PCDATA)>

<!ELEMENT default-apn-selected (#PCDATA)>

<!ELEMENT delete-request-received (#PCDATA)>

<!ELEMENT delete-request-transmitted (#PCDATA)>

<!ELEMENT delete-response-received (#PCDATA)>

<!ELEMENT delete-response-transmitted (#PCDATA)>

<!ELEMENT destination-port-range (#PCDATA)>

<!ELEMENT diffserv-code-point (#PCDATA)>

<!ELEMENT discard-rx-packets (#PCDATA)>

<!ELEMENT discard-tx-packets (#PCDATA)>

<!ELEMENT discarded-downlink (#PCDATA)>

<!ELEMENT discarded-uplink (#PCDATA)>

<!ELEMENT downlink (packets | packets-ipv6 | bytes | bytes-ipv6 | dropped-packets | dropped-packets-ipv6 | dropped-bytes | dropped-bytes-ipv6)*>

<!ELEMENT downlink-bitrate (#PCDATA)>

<!ELEMENT downlink-bytes (#PCDATA)>

<!ELEMENT downlink-packets (#PCDATA)>

<!ELEMENT downlink-statistics (#PCDATA)>

<!ELEMENT dropped-bytes (#PCDATA)>

<!ELEMENT dropped-bytes-ipv6 (#PCDATA)>

<!ELEMENT dropped-packets (#PCDATA)>

<!ELEMENT dropped-packets-ipv6 (#PCDATA)>

<!ELEMENT duration-time (#PCDATA)>

<!ELEMENT dynamic-charging-rules (#PCDATA)>

<!ELEMENT echo-request-statistics (request-received | request-transmitted | response-received | response-transmitted)*>

<!ELEMENT encoded-cdrs (#PCDATA)>

<!ELEMENT error-access-denied (#PCDATA)>

<!ELEMENT error-already-activated (#PCDATA)>

<!ELEMENT error-already-fulfilled (#PCDATA)>

```
<!ELEMENT error-authentication-failed (#PCDATA)>
<!ELEMENT error-decoding-error (#PCDATA)>
<!ELEMENT error-duplicate-packet-fulfilled (#PCDATA)>
<!ELEMENT error-indication-received (#PCDATA)>
<!ELEMENT error-indication-transmitted (#PCDATA)>
<!ELEMENT error-invalid-request-format (#PCDATA)>
<!ELEMENT error-invalid-request-format-when-delete (#PCDATA)>
<!ELEMENT error-invalid-request-format-when-update (#PCDATA)>
<!ELEMENT error-mandatory-ie-invalid (#PCDATA)>
<!ELEMENT error-mandatory-ie-invalid-when-delete (#PCDATA)>
<!ELEMENT error-mandatory-ie-invalid-when-update (#PCDATA)>
<!ELEMENT error-mandatory-ie-missing (#PCDATA)>
<!ELEMENT error-mandatory-ie-missing-when-delete (#PCDATA)>
<!ELEMENT error-mandatory-ie-missing-when-update (#PCDATA)>
<!ELEMENT error-no-dynamic-address-available (#PCDATA)>
<!ELEMENT error-no-memory (#PCDATA)>
<!ELEMENT error-no-resources (#PCDATA)>
<!ELEMENT error-optional-ie-invalid (#PCDATA)>
<!ELEMENT error-optional-ie-invalid-when-delete (#PCDATA)>
<!ELEMENT error-optional-ie-invalid-when-update (#PCDATA)>
<!ELEMENT error-packet-filter-semantic (#PCDATA)>
<!ELEMENT error-packet-filter-semantic-when-update (#PCDATA)>
<!ELEMENT error-packet-filter-syntax (#PCDATA)>
<!ELEMENT error-packet-filter-syntax-when-update (#PCDATA)>
<!ELEMENT error-reference-invalid (#PCDATA)>
<!ELEMENT error-reference-invalid-when-delete (#PCDATA)>
<!ELEMENT error-reference-invalid-when-update (#PCDATA)>
<!ELEMENT error-request-unfulfilled (#PCDATA)>
<!ELEMENT error-service-unsupported (#PCDATA)>
```

<!ELEMENT error-system-failure (#PCDATA)>

<!ELEMENT error-system-failure-when-update (#PCDATA)>

<!ELEMENT error-tft-error-semantic (#PCDATA)>

<!ELEMENT error-tft-error-semantic-when-update (#PCDATA)>

<!ELEMENT error-tft-error-syntax (#PCDATA)>

<!ELEMENT error-tft-error-syntax-when-update (#PCDATA)>

<!ELEMENT error-unknown-apn (#PCDATA)>

<!ELEMENT error-unknown-pdp-address-or-type (#PCDATA)>

<!ELEMENT error-version-unsupported (#PCDATA)>

<!ELEMENT evaluation-precedence (#PCDATA)>

<!ELEMENT external-address (#PCDATA)>

<!ELEMENT external-credit-update (#PCDATA)>

<!ELEMENT external-credit-update-no-match (#PCDATA)>

<!ELEMENT external-prs-update (#PCDATA)>

<!ELEMENT external-prs-update-no-match (#PCDATA)>

<!ELEMENT external-update-failed (#PCDATA)>

<!ELEMENT failed-encoded-cdrs (#PCDATA)>

<!ELEMENT flow-label (#PCDATA)>

<!ELEMENT gate-discarded-downlink (#PCDATA)>

<!ELEMENT gate-discarded-uplink (#PCDATA)>

<!ELEMENT generated-ftp-cdrs (#PCDATA)>

<!ELEMENT generated-gtpp-cdrs (#PCDATA)>

<!ELEMENT ggsn-interface (service-interface | weighted-pdp-context-load-in-payload | weighted-pdp-context-load-in-control | external-address | internal-address | operating-function | hardware-version | software-version | pdp | resources | tft-statistics | time-started | sbcc-statistics-information)*>

<!ELEMENT ggsn-interface-information (ggsn-interface)*>

<!ELEMENT ggsn-pdp-per-user-category (user-category-line)*>

```
<!ELEMENT ggsn-statistics (time-started | pdp-context-statistics |
interface-pdp-context-statistics-information | subscriber-count | uplink | downlink |
tft-filter-count | wlan-pdp-context-activation-procedures | wlan-processed-uplink-bytes |
wlan-dropped-uplink-packets | wlan-processed-uplink-packets |
wlan-completed-pdp-context-activations | wlan-active-pdp-contexts |
wlan-processed-downlink-bytes | wlan-dropped-downlink-packets |
wlan-processed-downlink-packets | weighted-pdp-context-load |
sbcc-statistics-information | charging-statistics-information |
radius-statistics-information)*>

<!ELEMENT gi-diffserv-code-point (#PCDATA)>

<!ELEMENT gn-diffserv-code-point (#PCDATA)>

<!ELEMENT gtp-error-statistics (request-accepted | error-indication-received |
error-indication-transmitted | error-version-unsupported | error-invalid-request-format |
error-invalid-request-format-when-update | error-invalid-request-format-when-delete |
error-no-resources | error-no-dynamic-address-available | error-no-memory |
error-unknown-apn | error-unknown-pdp-address-or-type | error-authentication-failed |
error-system-failure | error-system-failure-when-update | error-tft-error-semantic |
error-tft-error-semantic-when-update | error-tft-error-syntax |
error-tft-error-syntax-when-update | error-packet-filter-semantic |
error-packet-filter-semantic-when-update | error-packet-filter-syntax |
error-packet-filter-syntax-when-update | error-mandatory-ie-missing |
error-mandatory-ie-missing-when-update | error-mandatory-ie-missing-when-delete |
error-mandatory-ie-invalid | error-mandatory-ie-invalid-when-update |
error-mandatory-ie-invalid-when-delete | error-optional-ie-invalid |
error-optional-ie-invalid-when-update | error-optional-ie-invalid-when-delete |
error-reference-invalid | error-reference-invalid-when-update |
error-reference-invalid-when-delete | error-service-unsupported | error-already-activated |
error-access-denied)*>

<!ELEMENT gtp-prime-error-statistics (error-mandatory-ie-missing |
error-mandatory-ie-invalid | error-optional-ie-invalid | error-reference-invalid)*>

<!ELEMENT gtp-prime-statistics (service-interface | echo-request-statistics |
version-unsupported-statistics | node-alive-request-statistics |
redirection-request-statistics | data-record-transfer-statistics |
gtp-prime-error-statistics)*>

<!ELEMENT gtp-prime-statistics-information (billing-gateway | gtp-prime-statistics)*>

<!ELEMENT gtp-statistics (service-interface | uplink-packets | uplink-bytes |
downlink-packets | downlink-bytes | dropped-packets | active-tunnels | created-tunnels |
echo-request-statistics | version-unsupported-statistics | pdp-request-statistics |
gtp-error-statistics)*>

<!ELEMENT gtp-statistics-information (gtp-statistics)*>

<!ELEMENT gtpp-log-cdrs (#PCDATA)>

<!ELEMENT gtpp-send-attempted-cdrs (#PCDATA)>

<!ELEMENT gtpp-send-failed-cdrs (#PCDATA)>

<!ELEMENT hardware-version (#PCDATA)>
```

<!ELEMENT ims-dedicated-completed-activation (#PCDATA)>

<!ELEMENT ims-dedicated-failed-activation (#PCDATA)>

<!ELEMENT ims-general-active-failed-activation (#PCDATA)>

<!ELEMENT ims-general-completed-activation (#PCDATA)>

<!ELEMENT ims-general-failed-activation (#PCDATA)>

<!ELEMENT ims-signalling-packets-drops (#PCDATA)>

<!ELEMENT imsi (#PCDATA)>

<!ELEMENT incoming (packets | bytes)*>

<!ELEMENT inspection-information (packet-inspection)*>

<!ELEMENT interface-action (#PCDATA)>

<!ELEMENT interface-action-results (interface-action | service-interface | daemon-name)*>

<!ELEMENT interface-pdp-context-deletion (pdp-deleted | service-interface)*>

<!ELEMENT interface-pdp-context-deletion-information (interface-pdp-context-deletion)*>

<!ELEMENT interface-pdp-context-statistics (service-interface | pdp-context-statistics)*>

<!ELEMENT interface-pdp-context-statistics-information (interface-pdp-context-statistics)*>

<!ELEMENT internal-address (#PCDATA)>

<!ELEMENT l2tp-tunnel-packet-statistics (control-tx-packets | control-rx-packets | data-tx-packets | data-rx-packets | discard-tx-packets | discard-rx-packets)*>

<!ELEMENT l2tp-tunnel-statistics (local-tid | remote-tid | local-ip | remote-ip | active-sessions | l2tp-tunnel-packet-statistics)*>

<!ELEMENT l2tp-tunnel-statistics-information (l2tp-tunnel-statistics)*>

<!ELEMENT local-ip (#PCDATA)>

<!ELEMENT local-tid (#PCDATA)>

<!ELEMENT logical-apn-statistics (name | pdp-attempted-activation | pdp-blocked | default-apn-selected | default-apn-invalid | username-based-apn-selected | username-based-apn-invalid)*>

<!ELEMENT logical-apn-statistics-information (logical-apn-statistics)*>

<!ELEMENT maximum-tft-filter-depth (#PCDATA)>

<!ELEMENT mean-tft-filter-depth (#PCDATA)>

```
<!ELEMENT memory-total (#PCDATA)>

<!ELEMENT memory-used (#PCDATA)>

<!ELEMENT mobile-user (imsi | msisdn | pdp-context-information)*>

<!ELEMENT mobile-user-information (mobile-user)*>

<!ELEMENT modification-bearer-ctrl-accept (#PCDATA)>

<!ELEMENT modification-bearer-ctrl-deactivate (#PCDATA)>

<!ELEMENT modification-bearer-ctrl-downgrade (#PCDATA)>

<!ELEMENT modification-bearer-ctrl-upgrade (#PCDATA)>

<!ELEMENT modification-no-bearer-ctrl-accept (#PCDATA)>

<!ELEMENT modification-no-bearer-ctrl-deactivate (#PCDATA)>

<!ELEMENT modification-no-bearer-ctrl-downgrade (#PCDATA)>

<!ELEMENT msisdn (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT neighbor-solicitation-req-received (#PCDATA)>

<!ELEMENT neighbor-solicitation-req-responded (#PCDATA)>

<!ELEMENT node-action (#PCDATA)>

<!ELEMENT node-action-results (node-action)*>

<!ELEMENT node-alive-request-statistics (request-received | request-transmitted |
response-received | response-transmitted)*>

<!ELEMENT nsapi (#PCDATA)>

<!ELEMENT nsapi-information (nsapi)*>

<!ELEMENT nsapi-linked (#PCDATA)>

<!ELEMENT number-active (#PCDATA)>

<!ELEMENT number-enabled (#PCDATA)>

<!ELEMENT operating-function (#PCDATA)>

<!ELEMENT outgoing (packets | bytes)*>

<!ELEMENT packet-filter (evaluation-precedence | source-address | source-mask |
source-port-range | destination-port-range | diffserv-code-point | flow-label | spi |
protocol)*>

<!ELEMENT packet-filter-information (packet-filter)*>
```

<!ELEMENT packet-inspection (#PCDATA)>

<!ELEMENT packets (#PCDATA)>

<!ELEMENT packets-ipv6 (#PCDATA)>

<!ELEMENT pdp (pdp-state | pdp-assigned | pdp-capacity)*>

<!ELEMENT pdp-active (#PCDATA)>

<!ELEMENT pdp-active-background (#PCDATA)>

<!ELEMENT pdp-active-conversational (#PCDATA)>

<!ELEMENT pdp-active-imsi (#PCDATA)>

<!ELEMENT pdp-active-interactive (#PCDATA)>

<!ELEMENT pdp-active-ipv6 (#PCDATA)>

<!ELEMENT pdp-active-l2tp-sessions (#PCDATA)>

<!ELEMENT pdp-active-l2tp-tunnels (#PCDATA)>

<!ELEMENT pdp-active-msisdn (#PCDATA)>

<!ELEMENT pdp-active-streaming (#PCDATA)>

<!ELEMENT pdp-apn-by-logical-apn-default (#PCDATA)>

<!ELEMENT pdp-apn-by-logical-apn-selection (#PCDATA)>

<!ELEMENT pdp-assigned (#PCDATA)>

<!ELEMENT pdp-assigned-msisdn (#PCDATA)>

<!ELEMENT pdp-assigned-shared-msisdn (#PCDATA)>

<!ELEMENT pdp-attempted-activation (#PCDATA)>

<!ELEMENT pdp-attempted-activation-dhcp (#PCDATA)>

<!ELEMENT pdp-attempted-activation-dynamic (#PCDATA)>

<!ELEMENT pdp-attempted-activation-ipv6 (#PCDATA)>

<!ELEMENT pdp-attempted-activation-local-pool (#PCDATA)>

<!ELEMENT pdp-attempted-activation-radius (#PCDATA)>

<!ELEMENT pdp-attempted-authentication-activation (#PCDATA)>

<!ELEMENT pdp-attempted-deactivation (#PCDATA)>

<!ELEMENT pdp-attempted-mobile-activation (#PCDATA)>

<!ELEMENT pdp-attempted-mobile-deactivation (#PCDATA)>

```
<!ELEMENT pdp-attempted-mobile-sgsn-update (#PCDATA)>

<!ELEMENT pdp-attempted-node-deactivation (#PCDATA)>

<!ELEMENT pdp-blocked (#PCDATA)>

<!ELEMENT pdp-capacity (#PCDATA)>

<!ELEMENT pdp-completed-activation (#PCDATA)>

<!ELEMENT pdp-completed-activation-dhcp (#PCDATA)>

<!ELEMENT pdp-completed-activation-dynamic (#PCDATA)>

<!ELEMENT pdp-completed-activation-ipv6 (#PCDATA)>

<!ELEMENT pdp-completed-activation-local-pool (#PCDATA)>

<!ELEMENT pdp-completed-activation-radius (#PCDATA)>

<!ELEMENT pdp-completed-authentication-activation (#PCDATA)>

<!ELEMENT pdp-completed-deactivation (#PCDATA)>

<!ELEMENT pdp-completed-idle-deactivation (#PCDATA)>

<!ELEMENT pdp-completed-mobile-activation (#PCDATA)>

<!ELEMENT pdp-completed-mobile-deactivation (#PCDATA)>

<!ELEMENT pdp-completed-mobile-sgsn-update (#PCDATA)>

<!ELEMENT pdp-completed-node-deactivation (#PCDATA)>

<!ELEMENT pdp-completed-session-deactivation (#PCDATA)>

<!ELEMENT pdp-context (nsapi | nsapi-linked | apn-name | sgsn-address | address |
charging-identifier | quality-of-service | traffic-flow-template-information)*>

<!ELEMENT pdp-context-deletion-results (mobile-user)*>

<!ELEMENT pdp-context-information (pdp-context)*>
```

<!ELEMENT pdp-context-statistics (pdp-active | pdp-active-conversational |
pdp-active-streaming | pdp-active-interactive | pdp-active-background | pdp-active-ipv6 |
pdp-active-imsi | pdp-active-msisdn | pdp-blocked | pdp-apn-by-logical-apn-selection |
pdp-apn-by-logical-apn-default | pdp-assigned-msisdn | pdp-assigned-shared-msisdn |
pdp-attempted-activation | pdp-attempted-activation-ipv6 | pdp-completed-activation |
pdp-completed-activation-ipv6 | pdp-attempted-activation-dhcp |
pdp-completed-activation-dhcp | pdp-attempted-activation-radius |
pdp-completed-activation-radius | pdp-attempted-activation-local-pool |
pdp-completed-activation-local-pool | pdp-attempted-activation-dynamic |
pdp-completed-activation-dynamic | pdp-attempted-mobile-activation |
pdp-completed-mobile-activation | pdp-attempted-deactivation |
pdp-completed-deactivation | pdp-attempted-node-deactivation |
pdp-completed-node-deactivation | pdp-completed-idle-deactivation |
pdp-completed-session-deactivation | pdp-attempted-mobile-deactivation |
pdp-completed-mobile-deactivation | pdp-attempted-authentication-activation |
pdp-completed-authentication-activation | pdp-attempted-mobile-sgsn-update |
pdp-completed-mobile-sgsn-update | pdp-created | pdp-created-ipv6 | pdp-create-failed |
pdp-create-failed-ipv6 | pdp-secondary-created | pdp-secondary-created-ipv6 |
pdp-secondary-create-failed | pdp-secondary-attempted-ipv6 |
pdp-secondary-completed-ipv6 | pdp-last-create | pdp-secondary-create-failed-ipv6 |
pdp-updates | pdp-update-failed | pdp-deleted | pdp-deleted-by-idle-supervision |
pdp-deleted-by-session-supervision | pdp-deleted-by-command | pdp-deleted-by-failure |
pdp-delete-failed | pdp-last-delete | pdp-successful-deactivations |
pdp-failed-deactivations | pdp-maximum | pdp-minimum | pdp-mean |
pdp-active-l2tp-tunnels | pdp-active-l2tp-sessions | pdp-maximum-active-l2tp-tunnels |
pdp-maximum-active-l2tp-sessions | ims-dedicated-completed-activation |
ims-dedicated-failed-activation | ims-general-completed-activation |
ims-general-failed-activation | ims-general-active-failed-activation |
ims-signalling-packets-drops)*>

<!ELEMENT pdp-create-failed (#PCDATA)>

<!ELEMENT pdp-create-failed-ipv6 (#PCDATA)>

<!ELEMENT pdp-created (#PCDATA)>

<!ELEMENT pdp-created-ipv6 (#PCDATA)>

<!ELEMENT pdp-delete-failed (#PCDATA)>

<!ELEMENT pdp-deleted (#PCDATA)>

<!ELEMENT pdp-deleted-by-command (#PCDATA)>

<!ELEMENT pdp-deleted-by-failure (#PCDATA)>

<!ELEMENT pdp-deleted-by-idle-supervision (#PCDATA)>

<!ELEMENT pdp-deleted-by-session-supervision (#PCDATA)>

<!ELEMENT pdp-diagnostics-per-apn (pdp-id)*>

<!ELEMENT pdp-failed-deactivations (#PCDATA)>

<!ELEMENT pdp-id (#PCDATA)>

<!ELEMENT pdp-initiated-deactivation (#PCDATA)>

```
<!ELEMENT pdp-last-create (#PCDATA)>
<!ATTLIST pdp-last-create junos:seconds CDATA #IMPLIED>

<!ELEMENT pdp-last-delete (#PCDATA)>
<!ATTLIST pdp-last-delete junos:seconds CDATA #IMPLIED>

<!ELEMENT pdp-maximum (#PCDATA)>

<!ELEMENT pdp-maximum-active-l2tp-sessions (#PCDATA)>

<!ELEMENT pdp-maximum-active-l2tp-tunnels (#PCDATA)>

<!ELEMENT pdp-mean (#PCDATA)>

<!ELEMENT pdp-minimum (#PCDATA)>

<!ELEMENT pdp-request-statistics (create-request-received |
create-response-transmitted | update-request-received | update-request-transmitted |
update-response-received | update-response-transmitted | delete-request-received |
delete-request-transmitted | delete-response-received | delete-response-transmitted)*>

<!ELEMENT pdp-secondary-attempted-ipv6 (#PCDATA)>

<!ELEMENT pdp-secondary-completed-ipv6 (#PCDATA)>

<!ELEMENT pdp-secondary-create-failed (#PCDATA)>

<!ELEMENT pdp-secondary-create-failed-ipv6 (#PCDATA)>

<!ELEMENT pdp-secondary-created (#PCDATA)>

<!ELEMENT pdp-secondary-created-ipv6 (#PCDATA)>

<!ELEMENT pdp-state (#PCDATA)>

<!ELEMENT pdp-successful-deactivations (#PCDATA)>

<!ELEMENT pdp-update-failed (#PCDATA)>

<!ELEMENT pdp-updates (#PCDATA)>

<!ELEMENT pras-identifier (#PCDATA)>

<!ELEMENT pras-information (pras-statistics)*>

<!ELEMENT pras-start-request (#PCDATA)>

<!ELEMENT pras-start-request-failed (#PCDATA)>

<!ELEMENT pras-statistics (pras-identifier | pras-start-request | pras-start-request-failed
| pras-update-request | pras-update-request-failed | pras-stop-request |
pras-stop-request-failed | pras-user-service-denied | pras-user-unknown)*>

<!ELEMENT pras-stop-request (#PCDATA)>

<!ELEMENT pras-stop-request-failed (#PCDATA)>
```

<!ELEMENT pras-update-request (#PCDATA)>

<!ELEMENT pras-update-request-failed (#PCDATA)>

<!ELEMENT pras-user-service-denied (#PCDATA)>

<!ELEMENT pras-user-unknown (#PCDATA)>

<!ELEMENT prepaid-context (#PCDATA)>

<!ELEMENT prepaid-pdp-creates-attempted (#PCDATA)>

<!ELEMENT prepaid-pdp-creates-failed (#PCDATA)>

<!ELEMENT prepaid-request (#PCDATA)>

<!ELEMENT prepaid-user (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>

<!ELEMENT quality-of-service (gi-diffserv-code-point | gn-diffserv-code-point | downlink-bitrate)*>

<!ELEMENT radius-authentication-failure (#PCDATA)>

<!ELEMENT radius-statistics-information (radius-authentication-failure | accounting-failure)*>

<!ELEMENT rate-group-identifier (#PCDATA)>

<!ELEMENT rate-group-information (rate-group-statistics)*>

<!ELEMENT rate-group-statistics (rate-group-identifier | transactions-start | transactions-success)*>

<!ELEMENT rating-initial-request-attempted (#PCDATA)>

<!ELEMENT rating-initial-request-failed (#PCDATA)>

<!ELEMENT rating-request (#PCDATA)>

<!ELEMENT rating-update-request-attempted (#PCDATA)>

<!ELEMENT rating-update-request-failed (#PCDATA)>

<!ELEMENT redirection-request-statistics (request-received | request-transmitted | response-received | response-transmitted)*>

<!ELEMENT remote-ip (#PCDATA)>

<!ELEMENT remote-tid (#PCDATA)>

<!ELEMENT request (#PCDATA)>

<!ELEMENT request-accepted (#PCDATA)>

```
<!ELEMENT request-received (#PCDATA)>

<!ELEMENT request-transmitted (#PCDATA)>

<!ELEMENT resources (cpu-info | memory-total | memory-used)*>

<!ELEMENT response-received (#PCDATA)>

<!ELEMENT response-transmitted (#PCDATA)>

<!ELEMENT router-solicitation-req-received (#PCDATA)>

<!ELEMENT router-solicitation-req-responded (#PCDATA)>

<!ELEMENT rs-identifier (#PCDATA)>

<!ELEMENT rs-statistics (rs-identifier | uplink-statistics | downlink-statistics |
service-instances | discarded-uplink | discarded-downlink | gate-discarded-uplink |
gate-discarded-downlink)*>

<!ELEMENT rulespace-based-charging-statistics (rs-statistics)*>

<!ELEMENT sbcc-statistics-information (prepaid-request | rating-request | prepaid-user |
prepaid-context | prepaid-pdp-creates-attempted | prepaid-pdp-creates-failed |
pdp-initiated-deactivation | credit-start-request-attempted | credit-start-request-failed |
rating-initial-request-attempted | rating-initial-request-failed |
rating-update-request-attempted | rating-update-request-failed |
credit-update-request-attempted | credit-update-request-failed |
credit-stop-request-attempted | credit-stop-request-failed | external-prs-update |
external-prs-update-no-match | external-credit-update | external-credit-update-no-match |
external-update-failed | duration-time | activation-bearer-ctrl-accept |
activation-bearer-ctrl-reject | activation-bearer-ctrl-upgrade |
activation-bearer-ctrl-downgrade | modification-bearer-ctrl-accept |
modification-bearer-ctrl-deactivate | modification-bearer-ctrl-upgrade |
modification-bearer-ctrl-downgrade | activation-no-bearer-ctrl-accept |
activation-no-bearer-ctrl-reject | activation-no-bearer-ctrl-downgrade |
modification-no-bearer-ctrl-accept | modification-no-bearer-ctrl-deactivate |
modification-no-bearer-ctrl-downgrade | das-information | pras-information |
ccas-information | service-class-information | service-identifier-information |
rate-group-information | authorization-discard-information)*>

<!ELEMENT send-data-record-packet (#PCDATA)>

<!ELEMENT service-based-charging-for-gx (ccr-statistics | dynamic-charging-rules |
active-predifened-charging-rules | active-predifened-charging-rulbases)*>

<!ELEMENT service-class-identifier (#PCDATA)>

<!ELEMENT service-class-information (service-class-statistics)*>

<!ELEMENT service-class-source (#PCDATA)>

<!ELEMENT service-class-statistics (service-class-identifier | uplink-bytes |
downlink-bytes | active-time)*>

<!ELEMENT service-id-identifier (#PCDATA)>
```

```
<!ELEMENT service-id-information (service-id-statistics)*>

<!ELEMENT service-id-statistics (service-id-identifier | uplink-bytes | downlink-bytes |
transactions-charged | transactions-failed | transactions-start |
transactions-success)*>

<!ELEMENT service-identifier-information (#PCDATA)>

<!ELEMENT service-instances (#PCDATA)>

<!ELEMENT service-interface (#PCDATA)>

<!ELEMENT session-failure (#PCDATA)>

<!ELEMENT sgsn-address (#PCDATA)>

<!ELEMENT sgsn-statistics (address | pdp-context-statistics | uplink | downlink |
gtp-error-statistics)*>

<!ELEMENT sgsn-statistics-information (sgsn-statistics)*>

<!ELEMENT signalling (incoming | outgoing)*>

<!ELEMENT software-action-message (#PCDATA)>

<!ELEMENT software-action-results (software-action-message)*>

<!ELEMENT software-version (#PCDATA)>

<!ELEMENT source-address (#PCDATA)>

<!ELEMENT source-mask (#PCDATA)>

<!ELEMENT source-port-range (#PCDATA)>

<!ELEMENT spi (#PCDATA)>

<!ELEMENT subscriber-count (#PCDATA)>

<!ELEMENT tft-filter-count (#PCDATA)>

<!ELEMENT tft-statistics (maximum-tft-filter-depth | mean-tft-filter-depth)*>

<!ELEMENT time-connected (#PCDATA)>
<!ATTLIST time-connected junos:seconds CDATA #IMPLIED>

<!ELEMENT time-started (#PCDATA)>
<!ATTLIST time-started junos:seconds CDATA #IMPLIED>

<!ELEMENT traffic-flow-template (packet-filter-information)*>

<!ELEMENT traffic-flow-template-information (traffic-flow-template)*>

<!ELEMENT transactions-charged (#PCDATA)>

<!ELEMENT transactions-failed (#PCDATA)>
```

<!ELEMENT transactions-start (#PCDATA)>

<!ELEMENT transactions-success (#PCDATA)>

<!ELEMENT update-request-received (#PCDATA)>

<!ELEMENT update-request-transmitted (#PCDATA)>

<!ELEMENT update-response-received (#PCDATA)>

<!ELEMENT update-response-transmitted (#PCDATA)>

<!ELEMENT uplink (packets | packets-ipv6 | bytes | bytes-ipv6 | dropped-packets | dropped-packets-ipv6 | dropped-bytes | dropped-bytes-ipv6)*>

<!ELEMENT uplink-bytes (#PCDATA)>

<!ELEMENT uplink-packets (#PCDATA)>

<!ELEMENT uplink-statistics (#PCDATA)>

<!ELEMENT user-category (#PCDATA)>

<!ELEMENT user-category-line (user-category | pdp-active)*>

<!ELEMENT username-based-apn-invalid (#PCDATA)>

<!ELEMENT username-based-apn-selected (#PCDATA)>

<!ELEMENT version-unsupported-received (#PCDATA)>

<!ELEMENT version-unsupported-statistics (version-unsupported-received | version-unsupported-transmitted)*>

<!ELEMENT version-unsupported-transmitted (#PCDATA)>

<!ELEMENT weighted-pdp-context-load (weighted-pdp-context-load-in-control | weighted-pdp-context-load-in-payload)*>

<!ELEMENT weighted-pdp-context-load-in-control (#PCDATA)>

<!ELEMENT weighted-pdp-context-load-in-payload (#PCDATA)>

<!ELEMENT wlan-active-pdp-contexts (#PCDATA)>

<!ELEMENT wlan-completed-pdp-context-activations (#PCDATA)>

<!ELEMENT wlan-dropped-downlink-packets (#PCDATA)>

<!ELEMENT wlan-dropped-uplink-packets (#PCDATA)>

<!ELEMENT wlan-pdp-context-activation-procedures (#PCDATA)>

<!ELEMENT wlan-processed-downlink-bytes (#PCDATA)>

<!ELEMENT wlan-processed-downlink-packets (#PCDATA)>

<!ELEMENT wlan-processed-uplink-bytes (#PCDATA)>

<!ELEMENT wlan-processed-uplink-packets (#PCDATA)>

Chapter 38

DTD for LACP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-lacpd.dtd, which lists the JUNOS XML tags that contain Link Aggregation Control Protocol (LACP) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-lacpd. To review reference pages for the tags, see "Summary of LACP Response Tags" on page 1201.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-lacpd.dtd –>

<!ELEMENT aggregate-name (#PCDATA)>

<!ELEMENT illegal-rx-packets (#PCDATA)>

<!ELEMENT lacp-activity (#PCDATA)>

<!ELEMENT lacp-aggregation (#PCDATA)>

<!ELEMENT lacp-collecting (#PCDATA)>

<!ELEMENT lacp-defaulted (#PCDATA)>

<!ELEMENT lacp-distributing (#PCDATA)>

<!ELEMENT lacp-expired (#PCDATA)>

<!ELEMENT lacp-interface-information (lag-lacp-header | lag-lacp-info | lag-lacp-state |
lag-lacp-protocol)*>

<!ELEMENT lacp-interface-information-list (lacp-interface-information)*>

<!ELEMENT lacp-interface-statistics (lag-lacp-header | lag-lacp-statistics)*>

<!ELEMENT lacp-interface-statistics-list (lacp-interface-statistics)*>

<!ELEMENT lacp-mux-state (#PCDATA)>

<!ELEMENT lacp-port-key (#PCDATA)>

<!ELEMENT lacp-port-number (#PCDATA)>

<!ELEMENT lacp-port-priority (#PCDATA)>
```

<!ELEMENT lacp-receive-state (#PCDATA)>

<!ELEMENT lacp-role (#PCDATA)>

<!ELEMENT lacp-rx-packets (#PCDATA)>

<!ELEMENT lacp-synchronization (#PCDATA)>

<!ELEMENT lacp-sys-priority (#PCDATA)>

<!ELEMENT lacp-system-id (#PCDATA)>

<!ELEMENT lacp-timeout (#PCDATA)>

<!ELEMENT lacp-transmit-state (#PCDATA)>

<!ELEMENT lacp-tx-packets (#PCDATA)>

<!ELEMENT lag-lacp-header (aggregate-name)*>

<!ELEMENT lag-lacp-info (name | lacp-role | lacp-sys-priority | lacp-system-id | lacp-port-priority | lacp-port-number | lacp-port-key)*>

<!ELEMENT lag-lacp-protocol (name | lacp-receive-state | lacp-transmit-state | lacp-mux-state)*>

<!ELEMENT lag-lacp-state (name | lacp-role | lacp-expired | lacp-defaulted | lacp-distributing | lacp-collecting | lacp-synchronization | lacp-aggregation | lacp-timeout | lacp-activity)*>

<!ELEMENT lag-lacp-statistics (name | lacp-rx-packets | lacp-tx-packets | unknown-rx-packets | illegal-rx-packets)*>

<!ELEMENT name (#PCDATA)>

<!ELEMENT unknown-rx-packets (#PCDATA)>

Chapter 39

DTD for Layer 2 Address Learning Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-l2al.dtd, which lists the JUNOS XML tags that contain Layer 2 address learning information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-l2al. To review reference pages for the tags, see "Summary of Layer 2 Address Learning Response Tags" on page 1206.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-l2al.dtd –>

<!ELEMENT bd-name (#PCDATA)>

<!ELEMENT bridge-domain-name (#PCDATA)>

<!ELEMENT bridge-statistics-information (l2ald-rtb-entry | interface-statistics)*>

<!ELEMENT broadcast-bytes (#PCDATA)>

<!ELEMENT broadcast-packets (#PCDATA)>

<!ELEMENT byte-count (#PCDATA)>

<!ELEMENT component-nhindex (#PCDATA)>

<!ELEMENT event-error (#PCDATA)>

<!ELEMENT event-name (#PCDATA)>

<!ELEMENT event-op (#PCDATA)>

<!ELEMENT event-owner (#PCDATA)>

<!ELEMENT event-type (#PCDATA)>

<!ELEMENT flood-group-composite-function (#PCDATA)>

<!ELEMENT flood-nh-components (interface-name | interface-type | nhtype | nhindex)*>
<!ATTLIST flood-nh-components junos:style CDATA #IMPLIED>

<!ELEMENT flood-nh-group (flood-nh-group-name | flood-nh-group-type | nhtype | nhindex
| flood-group-composite-function | flood-nh-components | flood-nh-p2mp-components)*>
```

```
<!ATTLIST flood-nh-group junos:style CDATA #IMPLIED>

<!ELEMENT flood-nh-group-name (#PCDATA)>

<!ELEMENT flood-nh-group-type (#PCDATA)>

<!ELEMENT flood-nh-p2mp-components (component-nhindex)*>

<!ELEMENT flood-route (route-prefix | route-type | owner | route-flood-group-name |
route-flood-group-index | nhtype | nhindex | flood-nh-p2mp-components |
flood-nh-components | flood-nh-group)*>
<!ATTLIST flood-route junos:style CDATA #IMPLIED>

<!ELEMENT flooded-bytes (#PCDATA)>

<!ELEMENT flooded-packets (#PCDATA)>

<!ELEMENT global-mac-count (#PCDATA)>

<!ELEMENT instance-name (#PCDATA)>

<!ELEMENT interface (interface-name | interface-id | interface-description |
local-interface-index | interface-flags | interface-flags-description)*>

<!ELEMENT interface-description (#PCDATA)>

<!ELEMENT interface-flags (#PCDATA)>

<!ELEMENT interface-flags-description (#PCDATA)>

<!ELEMENT interface-id (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-statistics (interface | remote-pe | broadcast-packets |
broadcast-bytes | multicast-packets | multicast-bytes | flooded-packets | flooded-bytes |
unicast-packets | unicast-bytes | mac-limit | num-mac-count)*>

<!ELEMENT interface-type (#PCDATA)>

<!ELEMENT l2-bridge-vlan (#PCDATA)>

<!ELEMENT l2-mac-address (#PCDATA)>

<!ELEMENT l2-mac-bridging-domain (#PCDATA)>

<!ELEMENT l2-mac-entry-flags (#PCDATA)>

<!ELEMENT l2-mac-epoch (#PCDATA)>

<!ELEMENT l2-mac-flags (#PCDATA)>

<!ELEMENT l2-mac-ifl-generation (#PCDATA)>

<!ELEMENT l2-mac-interface-device (#PCDATA)>

<!ELEMENT l2-mac-learn-mask (#PCDATA)>
```

```
<!ELEMENT l2-mac-logical-interface (#PCDATA)>

<!ELEMENT l2-mac-logical-system (#PCDATA)>

<!ELEMENT l2-mac-routing-instance (#PCDATA)>

<!ELEMENT l2-mac-sequence-number (#PCDATA)>

<!ELEMENT l2-mac-stp-index (#PCDATA)>

<!ELEMENT l2-mac-vlan (#PCDATA)>

<!ELEMENT l2ald-bridge-domain-flood-event-info (event-name | event-type | event-owner
| event-op | event-error)*>
<!ATTLIST l2ald-bridge-domain-flood-event-info junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-bridge-domain-flood-event-list (l2ald-bridge-domain-flood-event-info)*>

<!ELEMENT l2ald-bridge-domain-flood-event-queue (l2ald-bridge-domain-flood-next-event
| l2ald-bridge-domain-flood-event-list)*>

<!ELEMENT l2ald-bridge-domain-flood-instance (l2ald-bridge-domain-lr-information)*>

<!ELEMENT l2ald-bridge-domain-flood-instance-information (instance-name |
num-active-ce-iffs | num-active-ve-iffs | flood-route)*>
<!ATTLIST l2ald-bridge-domain-flood-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-bridge-domain-flood-next-event
(l2ald-bridge-domain-flood-event-info)*>

<!ELEMENT l2ald-bridge-domain-flood-route-information (flood-route)*>

<!ELEMENT l2ald-bridge-domain-lr-information (logical-system-info |
l2ald-bridge-domain-flood-instance-information)*>

<!ELEMENT l2ald-bridge-instance-group (l2rtb-name | l2rtb-bridging-domain |
l2rtb-instance-description | l2rtb-instance-type | l2rtb-instance-state |
l2rtb-instance-restart-state | l2rtb-instance-pathse1-timeout | l2rtb-interface-name |
l2rtb-macs-learned | l2rtb-instance-flags | l2rtb-bridge-vlan | l2rtb-brief-summary)*>

<!ELEMENT l2ald-bridge-instance-information (l2ald-bridge-instance-group)*>
<!ATTLIST l2ald-bridge-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-config-flag (#PCDATA)>

<!ELEMENT l2ald-config-smac-count (#PCDATA)>

<!ELEMENT l2ald-global-configuration (l2ald-mac-aging-time | l2ald-config-flag |
l2ald-mac-learning-status | l2ald-hardware-mac-learning-status |
l2ald-software-mac-learning-status | l2ald-statistics-status | l2ald-sequence-number |
l2ald-mac-learn-toggle-count | l2ald-hardware-mac-learn-toggle-count |
l2ald-software-mac-learn-toggle-count | l2ald-statistics-toggle-count |
l2ald-global-mac-limit-count | l2ald-global-mac-limit | l2ald-global-packet-action-drop |
l2ald-interface-mac-limit-wm | l2ald-rtb-mac-limit-wm | l2ald-mac-limit-wm |
l2ald-interface-mac-limit-timeout | l2ald-rtb-mac-limit-timeout | l2ald-mac-limit-timeout |
l2ald-config-smac-count | l2ald-non-config-smac-count)*>
```

```
<!ATTLIST l2ald-global-configuration junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-global-mac-limit (#PCDATA)>

<!ELEMENT l2ald-global-mac-limit-count (#PCDATA)>

<!ELEMENT l2ald-global-macdb (l2ald-mac-entry)*>

<!ELEMENT l2ald-global-macdb-count (global-mac-count)*>

<!ELEMENT l2ald-global-packet-action-drop (#PCDATA)>

<!ELEMENT l2ald-hardware-mac-learn-toggle-count (#PCDATA)>

<!ELEMENT l2ald-hardware-mac-learning-status (#PCDATA)>

<!ELEMENT l2ald-if-mac-count-entry (interface-name | mac-count)*>
<!ATTLIST l2ald-if-mac-count-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-interface-mac-count (l2ald-total-intf-mac-count |
l2ald-if-mac-count-entry)*>

<!ELEMENT l2ald-interface-mac-limit-timeout (#PCDATA)>

<!ELEMENT l2ald-interface-mac-limit-wm (#PCDATA)>

<!ELEMENT l2ald-interface-macdb (l2ald-macdb-if-name | l2ald-mac-entry)*>

<!ELEMENT l2ald-mac-aging-time (#PCDATA)>

<!ELEMENT l2ald-mac-destination-address-statistics (packet-count | byte-count)*>

<!ELEMENT l2ald-mac-entry (l2-mac-address | l2-mac-interface-device |
l2-mac-logical-interface | l2-mac-routing-instance | l2-mac-bridging-domain |
l2-mac-logical-system | l2-mac-vlan | l2-mac-stp-index | l2-mac-epoch |
l2-mac-ifl-generation | l2-mac-sequence-number | l2-mac-learn-mask | l2-mac-entry-flags
| l2-mac-flags | l2-bridge-vlan | l2ald-mac-source-address-statistics |
l2ald-mac-destination-address-statistics)*>
<!ATTLIST l2ald-mac-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-mac-learn-toggle-count (#PCDATA)>

<!ELEMENT l2ald-mac-learning-status (#PCDATA)>

<!ELEMENT l2ald-mac-limit-timeout (#PCDATA)>

<!ELEMENT l2ald-mac-limit-wm (#PCDATA)>

<!ELEMENT l2ald-mac-source-address-statistics (packet-count | byte-count)*>

<!ELEMENT l2ald-macdb-if-name (#PCDATA)>

<!ELEMENT l2ald-macdb-rtb-name (#PCDATA)>

<!ELEMENT l2ald-non-config-smac-count (#PCDATA)>
```

```
<!ELEMENT l2ald-perf-counters (perf-desc | perf-count | perf-start-time-sec |
perf-start-time-usec | perf-end-time-sec | perf-end-time-usec | perf-diff-time-sec |
perf-diff-time-usec)*>

<!ELEMENT l2ald-rtb-entry (l2rtb-name | l2rtb-bridging-domain | l2rtb-id | l2bd-id |
l2rtb-l2irb-ifl-index | l2bd-vlan-id | l2rtb-logical-system | l2rtb-sequence-number |
l2rtb-mac-limit | l2rtb-macs-learned | l2rtb-config-smacs-learned |
l2rtb-non-config-smacs-learned | l2rtb-flags | l2rtb-irb-interface | l2rtb-irb-interface-index |
l2rtb-handle | l2rtb-config-bd-vlan | l2rtb-config-operation | l2rtb-config-flags |
l2rtb-config-params | l2rtb-instance-type | l2rtb-config-smac-count |
l2rtb-rtsock-write-errors)*>
<!ATTLIST l2ald-rtb-entry junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-rtb-if-mac-count (l2ald-rtb-if-mac-count-entry)*>

<!ELEMENT l2ald-rtb-if-mac-count-entry (interface-name | mac-count)*>

<!ELEMENT l2ald-rtb-learn-vlan-mac-count (l2ald-rtb-learn-vlan-mac-count-entry)*>

<!ELEMENT l2ald-rtb-learn-vlan-mac-count-entry (learn-vlan | mac-count)*>

<!ELEMENT l2ald-rtb-mac-count (l2ald-rtb-mac-count-entry)*>

<!ELEMENT l2ald-rtb-mac-count-entry (rtb-name | bd-name | rtb-mac-count |
l2ald-rtb-if-mac-count | l2ald-rtb-learn-vlan-mac-count)*>

<!ELEMENT l2ald-rtb-mac-learn-address (#PCDATA)>

<!ELEMENT l2ald-rtb-mac-learn-count (l2ald-rtb-mac-learn-address |
l2ald-rtb-mac-learn-num-times)*>

<!ELEMENT l2ald-rtb-mac-learn-num-times (#PCDATA)>

<!ELEMENT l2ald-rtb-mac-limit-timeout (#PCDATA)>

<!ELEMENT l2ald-rtb-mac-limit-wm (#PCDATA)>

<!ELEMENT l2ald-rtb-macdb (l2ald-macdb-rtb-name | l2ald-mac-entry)*>

<!ELEMENT l2ald-sequence-number (#PCDATA)>

<!ELEMENT l2ald-software-mac-learn-toggle-count (#PCDATA)>

<!ELEMENT l2ald-software-mac-learning-status (#PCDATA)>

<!ELEMENT l2ald-statistics-status (#PCDATA)>

<!ELEMENT l2ald-statistics-toggle-count (#PCDATA)>

<!ELEMENT l2ald-total-intf-mac-count (#PCDATA)>

<!ELEMENT l2ald-vpls-flood-event-info (event-name | event-type | event-owner | event-op
| event-error)*>
<!ATTLIST l2ald-vpls-flood-event-info junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-vpls-flood-event-list (l2ald-vpls-flood-event-info)*>
```

```
<!ELEMENT l2ald-vpls-flood-event-queue (l2ald-vpls-flood-next-event |
l2ald-vpls-flood-event-list)*>

<!ELEMENT l2ald-vpls-flood-instance (l2ald-vpls-lr-information)*>

<!ELEMENT l2ald-vpls-flood-instance-information (instance-name | num-active-ce-iffs |
num-active-ve-iffs | bridge-domain-name | flood-route)*>
<!ATTLIST l2ald-vpls-flood-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT l2ald-vpls-flood-next-event (l2ald-vpls-flood-event-info)*>

<!ELEMENT l2ald-vpls-flood-route-information (flood-route)*>

<!ELEMENT l2ald-vpls-lr-information (logical-system-info |
l2ald-vpls-flood-instance-information)*>

<!ELEMENT l2bd-id (#PCDATA)>

<!ELEMENT l2bd-vlan-id (#PCDATA)>

<!ELEMENT l2rtb-bridge-vlan (#PCDATA)>

<!ELEMENT l2rtb-bridging-domain (#PCDATA)>

<!ELEMENT l2rtb-brief-summary EMPTY>

<!ELEMENT l2rtb-config-bd-vlan (#PCDATA)>

<!ELEMENT l2rtb-config-flags (#PCDATA)>

<!ELEMENT l2rtb-config-operation (#PCDATA)>

<!ELEMENT l2rtb-config-params (#PCDATA)>

<!ELEMENT l2rtb-config-smac-count (#PCDATA)>

<!ELEMENT l2rtb-config-smacs-learned (#PCDATA)>

<!ELEMENT l2rtb-flags (#PCDATA)>

<!ELEMENT l2rtb-handle (#PCDATA)>

<!ELEMENT l2rtb-id (#PCDATA)>

<!ELEMENT l2rtb-instance-description (#PCDATA)>

<!ELEMENT l2rtb-instance-flags (#PCDATA)>

<!ELEMENT l2rtb-instance-pathse1-timeout (#PCDATA)>

<!ELEMENT l2rtb-instance-restart-state (#PCDATA)>

<!ELEMENT l2rtb-instance-state (#PCDATA)>

<!ELEMENT l2rtb-instance-type (#PCDATA)>

<!ELEMENT l2rtb-interface-name (#PCDATA)>
```

```
<!ELEMENT l2rtb-irb-interface (#PCDATA)>
<!ELEMENT l2rtb-irb-interface-index (#PCDATA)>
<!ELEMENT l2rtb-l2irb-ifl-index (#PCDATA)>
<!ELEMENT l2rtb-logical-system (#PCDATA)>
<!ELEMENT l2rtb-mac-limit (#PCDATA)>
<!ELEMENT l2rtb-macs-learned (#PCDATA)>
<!ELEMENT l2rtb-name (#PCDATA)>
<!ELEMENT l2rtb-non-config-smacs-learned (#PCDATA)>
<!ELEMENT l2rtb-rtsock-write-errors (#PCDATA)>
<!ELEMENT l2rtb-sequence-number (#PCDATA)>
<!ELEMENT learn-vlan (#PCDATA)>
<!ELEMENT local-interface-index (#PCDATA)>
<!ELEMENT logical-system-info (logical-system-name)*>
<!ELEMENT logical-system-name (#PCDATA)>
<!ELEMENT mac-count (#PCDATA)>
<!ELEMENT mac-limit (#PCDATA)>
<!ELEMENT multicast-bytes (#PCDATA)>
<!ELEMENT multicast-packets (#PCDATA)>
<!ELEMENT nhindex (#PCDATA)>
<!ELEMENT nhtype (#PCDATA)>
<!ELEMENT num-active-ce-iffs (#PCDATA)>
<!ELEMENT num-active-ve-iffs (#PCDATA)>
<!ELEMENT num-mac-count (#PCDATA)>
<!ELEMENT owner (#PCDATA)>
<!ELEMENT packet-count (#PCDATA)>
<!ELEMENT perf-count (#PCDATA)>
<!ELEMENT perf-desc (#PCDATA)>
<!ELEMENT perf-diff-time-sec (#PCDATA)>
```

<!ELEMENT perf-diff-time-usec (#PCDATA)>

<!ELEMENT perf-end-time-sec (#PCDATA)>

<!ELEMENT perf-end-time-usec (#PCDATA)>

<!ELEMENT perf-start-time-sec (#PCDATA)>

<!ELEMENT perf-start-time-usec (#PCDATA)>

<!ELEMENT remote-pe (#PCDATA)>

<!ELEMENT route-flood-group-index (#PCDATA)>

<!ELEMENT route-flood-group-name (#PCDATA)>

<!ELEMENT route-prefix (#PCDATA)>

<!ELEMENT route-type (#PCDATA)>

<!ELEMENT rtb-mac-count (#PCDATA)>

<!ELEMENT rtb-name (#PCDATA)>

<!ELEMENT unicast-bytes (#PCDATA)>

<!ELEMENT unicast-packets (#PCDATA)>

Chapter 40

DTD for Layer 2 Control Protocol Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-l2cp.dtd, which lists the JUNOS XML tags that contain the Layer 2 Control Protocol (L2CP) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-l2cp. To review reference pages for the tags, see "Summary of Layer 2 Control Protocol Response Tags" on page 1230.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-l2cp.dtd –>

<!ELEMENT administrative-mode (#PCDATA)>

<!ELEMENT administrative-state (#PCDATA)>

<!ELEMENT aps-event (#PCDATA)>

<!ELEMENT aps-state (#PCDATA)>

<!ELEMENT authentication-failed-interface (#PCDATA)>

<!ELEMENT authentication-failed-mac-addr (#PCDATA)>

<!ELEMENT authentication-failed-user (#PCDATA)>

<!ELEMENT boundary-port (#PCDATA)>

<!ELEMENT bpdu-destination-mac-address (#PCDATA)>

<!ELEMENT bpdus-received-5seconds (#PCDATA)>

<!ELEMENT bpdus-sent-5seconds (#PCDATA)>

<!ELEMENT bridge-mac (#PCDATA)>

<!ELEMENT bridge-priority (#PCDATA)>

<!ELEMENT cist-bridge-parameters (cist-id | root-bridge | root-port | root-cost |
regional-root-bridge | internal-root-cost | hello-time-learned | max-age-learned |
forward-delay-learned | msg-age | hop-count | time-since-last-tc | topology-change-count |
extended-system-id | this-bridge | hello-time-configured | max-age-configured |
forward-delay-configured | max-hop-count-configured | path-cost-method)*>
```

```
<!ELEMENT cist-id (#PCDATA)>

<!ELEMENT control-channel-name (#PCDATA)>

<!ELEMENT designated-bridge-mac (#PCDATA)>
<!ATTLIST designated-bridge-mac junos:format CDATA #IMPLIED>

<!ELEMENT designated-bridge-priority (#PCDATA)>

<!ELEMENT designated-port-number (#PCDATA)>
<!ATTLIST designated-port-number junos:format CDATA #IMPLIED>

<!ELEMENT designated-port-priority (#PCDATA)>

<!ELEMENT dnf-flag (#PCDATA)>

<!ELEMENT dot1x-authentication-failed-users (authentication-failed-interface |
authentication-failed-mac-addr | authentication-failed-user)*>

<!ELEMENT dot1x-interface-information (interface | dot1x-static-mac-address |
dot1x-authentication-failed-users)*>

<!ELEMENT dot1x-static-mac-address (static-mac-address | static-mac-vlan-assignment
| static-mac-interface)*>

<!ELEMENT epoch (#PCDATA)>

<!ELEMENT erp-interface-entry (erp-interface-name | control-channel-name |
forward-state | rpl-end | sf-flag | interface-state)*>

<!ELEMENT erp-interface-information (ethernet-ring-pg)*>

<!ELEMENT erp-interface-name (#PCDATA)>

<!ELEMENT erp-interfaces (erp-interface-entry)*>
<!ATTLIST erp-interfaces junos:style CDATA #IMPLIED>

<!ELEMENT erp-protection-group-name (#PCDATA)>

<!ELEMENT erp-raps (erp-raps-entry)*>
<!ATTLIST erp-raps junos:style CDATA #IMPLIED>

<!ELEMENT erp-raps-entry (protection-group-name | aps-state | aps-event | rpl-owner |
wtr-timer | guard-timer | operation-state)*>

<!ELEMENT erp-raps-information (erp-raps)*>

<!ELEMENT erp-rpdu-entry (protection-group-name | request-state | dnf-flag | rb-flag |
originator | remote-node-id)*>

<!ELEMENT erp-rpdu-information (erp-rpdus)*>

<!ELEMENT erp-rpdus (erp-rpdu-entry)*>
<!ATTLIST erp-rpdus junos:style CDATA #IMPLIED>

<!ELEMENT ethernet-ring-pg (erp-protection-group-name | erp-interfaces)*>
```

```
<!ELEMENT ethernet-ring-statistics (protection-group-name | raps-event-sent |
raps-event-received | raps-local-sf | raps-remote-sf | raps-nr | raps-nr-rb)*>

<!ELEMENT extended-system-id (#PCDATA)>

<!ELEMENT forward-delay-configured (#PCDATA)>

<!ELEMENT forward-delay-learned (#PCDATA)>

<!ELEMENT forward-state (#PCDATA)>

<!ELEMENT frame-control (#PCDATA)>

<!ELEMENT guard-timer (#PCDATA)>

<!ELEMENT guest-vlan (#PCDATA)>

<!ELEMENT hardware-learning (#PCDATA)>

<!ELEMENT hello-time-configured (#PCDATA)>

<!ELEMENT hello-time-learned (#PCDATA)>

<!ELEMENT hop-count (#PCDATA)>

<!ELEMENT interface (user-name | user-mac-address | role | state | administrative-state
| administrative-mode | number-of-retries | quiet-period | transmit-period |
reauthentication | reauthentication-interval | supplicant-timeout | server-timeout |
max-eapol-request | frame-control | guest-vlan |
number-of-authentication-bypassed-clients | static-mac-bypass |
number-of-connected-supplicants | reauthentication-due)*>
<!ATTLIST interface junos:style CDATA #IMPLIED>

<!ELEMENT interface-state (#PCDATA)>

<!ELEMENT internal-root-cost (#PCDATA)>

<!ELEMENT kernel-action (#PCDATA)>

<!ELEMENT kernel-if-name (#PCDATA)>

<!ELEMENT kernel-state (#PCDATA)>

<!ELEMENT kernel-stp-instance (#PCDATA)>

<!ELEMENT l2pt-interface-entry (protocols)*>

<!ELEMENT l2pt-interface-list (l2pt-interface-entry)*>

<!ELEMENT link-type (#PCDATA)>

<!ELEMENT max-age-configured (#PCDATA)>

<!ELEMENT max-age-learned (#PCDATA)>

<!ELEMENT max-eapol-request (#PCDATA)>
```

<!ELEMENT max-hop-count-configured (#PCDATA)>

<!ELEMENT message-type (#PCDATA)>

<!ELEMENT msg-age (#PCDATA)>

<!ELEMENT msti-bridge-parameters (msti-id | msti-regional-root-bridge | root-port | root-cost | hello-time-learned | max-age-learned | forward-delay-learned | max-hop-count-configured | hop-count | time-since-last-tc | topology-change-count | extended-system-id | this-bridge | hello-time-configured | max-age-configured | forward-delay-configured | path-cost-method)*>

<!ELEMENT msti-id (#PCDATA)>

<!ELEMENT msti-regional-root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT mstp-configuration (mstp-name | mstp-revision | mstp-configuration-digest | vlan-map)*>

<!ELEMENT mstp-configuration-digest (#PCDATA)>

<!ELEMENT mstp-name (#PCDATA)>

<!ELEMENT mstp-revision (#PCDATA)>

<!ELEMENT next-bpdu-time (#PCDATA)>

<!ELEMENT number-of-authentication-bypassed-clients (#PCDATA)>

<!ELEMENT number-of-connected-supplicants (#PCDATA)>

<!ELEMENT number-of-retries (#PCDATA)>

<!ELEMENT operation-state (#PCDATA)>

<!ELEMENT originator (#PCDATA)>

<!ELEMENT path-cost-method (#PCDATA)>

<!ELEMENT port-cost (#PCDATA)>

<!ELEMENT port-migrated-protocol (#PCDATA)>

<!ELEMENT port-priority (#PCDATA)>

<!ELEMENT port-role (#PCDATA)>

<!ELEMENT port-state (#PCDATA)>

<!ELEMENT protection-group-name (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>

<!ELEMENT protocols (#PCDATA)>

<!ELEMENT quiet-period (#PCDATA)>

```
<!ELEMENT raps-event-received (#PCDATA)>

<!ELEMENT raps-event-sent (#PCDATA)>

<!ELEMENT raps-local-sf (#PCDATA)>

<!ELEMENT raps-nr (#PCDATA)>

<!ELEMENT raps-nr-rb (#PCDATA)>

<!ELEMENT raps-remote-sf (#PCDATA)>

<!ELEMENT rb-flag (#PCDATA)>

<!ELEMENT reauthentication (#PCDATA)>

<!ELEMENT reauthentication-due (#PCDATA)>

<!ELEMENT reauthentication-interval (#PCDATA)>

<!ELEMENT regional-root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT remote-node-id (#PCDATA)>
<!ATTLIST remote-node-id junos:format CDATA #IMPLIED>

<!ELEMENT request-state (#PCDATA)>

<!ELEMENT role (#PCDATA)>

<!ELEMENT root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT root-cost (#PCDATA)>

<!ELEMENT root-port (#PCDATA)>

<!ELEMENT routing-instance-name (#PCDATA)>

<!ELEMENT rpl-end (#PCDATA)>

<!ELEMENT rpl-owner (#PCDATA)>

<!ELEMENT server-timeout (#PCDATA)>

<!ELEMENT sf-flag (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT static-mac-address (#PCDATA)>

<!ELEMENT static-mac-bypass (#PCDATA)>

<!ELEMENT static-mac-interface (#PCDATA)>

<!ELEMENT static-mac-vlan-assignment (#PCDATA)>
```

<!ELEMENT stp-bridge (routing-instance-name | bpdu-destination-mac-address | protocol | cist-bridge-parameters | msti-bridge-parameters | vst-bridge-parameters)*>

<!ELEMENT stp-context-statistics-information (message-type | total-bpdus-sent | total-bpdus-received | bpdus-sent-5seconds | bpdus-received-5seconds | vstp-statistics)*>

<!ELEMENT stp-index (#PCDATA)>

<!ELEMENT stp-instance (stp-interfaces)*>

<!ELEMENT stp-interface-entry (port-priority | designated-port-priority | designated-port-number | port-cost | port-state | designated-bridge-priority | designated-bridge-mac | port-role | link-type | port-migrated-protocol | boundary-port)*>

<!ELEMENT stp-interface-information (stp-instance)*>

<!ELEMENT stp-interface-statistics (stp-interface-statistics-entry | vstp-interface-statistics)*>

<!ELEMENT stp-interface-statistics-entry (total-bpdus-sent | total-bpdus-received | next-bpdu-time)*>

<!ELEMENT stp-interfaces (stp-interface-entry)*>
<!ATTLIST stp-interfaces junos:style CDATA #IMPLIED>

<!ELEMENT stp-kernel-table (stp-kernel-table-entry)*>

<!ELEMENT stp-kernel-table-entry (stp-index | kernel-if-name | kernel-stp-instance | kernel-state | kernel-action | epoch | hardware-learning)*>

<!ELEMENT supplicant-timeout (#PCDATA)>

<!ELEMENT task (task-name | task-no-information | task-timer)*>

<!ELEMENT task-block (tb-name | tb-size | tb-alloc-size | tb-terse-transient | tb-terse-fullpage | tb-terse-debug | tb-alloc-blocks | tb-alloc-bytes | tb-max-alloc-blocks | tb-max-alloc-bytes)*>

<!ELEMENT task-block-list (task-block)*>

<!ELEMENT task-gres-state (#PCDATA)>

<!ELEMENT task-information (task)*>

<!ELEMENT task-lite-page (tlp-name | tlp-alloc-pages | tlp-alloc-bytes | tlp-max-alloc-pages | tlp-max-alloc-bytes)*>

<!ELEMENT task-lite-page-list (task-lite-page)*>

<!ELEMENT task-malloc (tm-name | tm-allocs | tm-alloc-bytes | tm-max-allocs | tm-max-alloc-bytes | tm-function-calls)*>

<!ELEMENT task-malloc-list (task-malloc)*>

<!ELEMENT task-memory-allocator-report (task-block-list | task-lite-page-list | task-memory-total-bytes | task-memory-total-max-bytes)*>

```
<!ELEMENT task-memory-bss-bytes (#PCDATA)>

<!ELEMENT task-memory-dir-bytes (#PCDATA)>

<!ELEMENT task-memory-dynamic-allocs (#PCDATA)>

<!ELEMENT task-memory-free-size (#PCDATA)>

<!ELEMENT task-memory-in-use-avail (#PCDATA)>

<!ELEMENT task-memory-in-use-size (#PCDATA)>

<!ELEMENT task-memory-information (task-memory-in-use-size |
task-memory-in-use-avail | task-memory-max-size | task-memory-max-avail |
task-memory-max-when | task-memory-free-size | task-memory-overall-report |
task-memory-allocator-report | task-memory-malloc-usage-report |
task-memory-dynamic-allocs | task-memory-max-dynamic-allocs | task-memory-bss-bytes
| task-memory-max-bss-bytes | task-memory-page-data-bytes |
task-memory-max-page-data-bytes | task-memory-dir-bytes | task-memory-max-dir-bytes |
task-memory-total-bytes-in-use | task-memory-total-bytes-percent)*>
<!ATTLIST task-memory-information junos:style CDATA #IMPLIED>

<!ELEMENT task-memory-malloc-usage-report (task-malloc-list | task-memory-total-bytes
| task-memory-total-max-bytes)*>

<!ELEMENT task-memory-max-avail (#PCDATA)>

<!ELEMENT task-memory-max-bss-bytes (#PCDATA)>

<!ELEMENT task-memory-max-dir-bytes (#PCDATA)>

<!ELEMENT task-memory-max-dynamic-allocs (#PCDATA)>

<!ELEMENT task-memory-max-page-data-bytes (#PCDATA)>

<!ELEMENT task-memory-max-size (#PCDATA)>

<!ELEMENT task-memory-max-when (#PCDATA)>

<!ELEMENT task-memory-overall-report (task-size-block-list | task-memory-stats-list |
task-memory-total-bytes | task-memory-total-max-bytes |
task-memory-total-free-bytes)*>

<!ELEMENT task-memory-page-data-bytes (#PCDATA)>

<!ELEMENT task-memory-stats (tms-name | tms-allocs | tms-mallocs | tms-alloc-bytes |
tms-max-allocs | tms-max-bytes | tms-free-bytes)*>

<!ELEMENT task-memory-stats-list (task-memory-stats)*>

<!ELEMENT task-memory-total-bytes (#PCDATA)>

<!ELEMENT task-memory-total-bytes-in-use (#PCDATA)>

<!ELEMENT task-memory-total-bytes-percent (#PCDATA)>
```

<!ELEMENT task-memory-total-free-bytes (#PCDATA)>

<!ELEMENT task-memory-total-max-bytes (#PCDATA)>

<!ELEMENT task-name (#PCDATA)>

<!ELEMENT task-no-information EMPTY>

<!ELEMENT task-protocol-replication-name (#PCDATA)>

<!ELEMENT task-protocol-replication-state (#PCDATA)>

<!ELEMENT task-re-mode (#PCDATA)>

<!ELEMENT task-replication-state (task-gres-state | task-re-mode |
task-protocol-replication-state | task-protocol-replication-name)*>

<!ELEMENT task-size-block (tsb-size | tsb-terse-transient | tsb-terse-fullpage | tsb-allocs
| tsb-mallocs | tsb-alloc-bytes | tsb-max-allocs | tsb-max-bytes | tsb-free-bytes)*>

<!ELEMENT task-size-block-list (task-size-block)*>

<!ELEMENT task-timer (timer-name | timer-late | timer-expires | timer-jitter |
timer-interval | timer-flags)*>

<!ELEMENT task-timer-information (task)*>

<!ELEMENT tb-alloc-blocks (#PCDATA)>

<!ELEMENT tb-alloc-bytes (#PCDATA)>

<!ELEMENT tb-alloc-size (#PCDATA)>

<!ELEMENT tb-max-alloc-blocks (#PCDATA)>

<!ELEMENT tb-max-alloc-bytes (#PCDATA)>

<!ELEMENT tb-name (#PCDATA)>

<!ELEMENT tb-size (#PCDATA)>

<!ELEMENT tb-terse-debug EMPTY>

<!ELEMENT tb-terse-fullpage EMPTY>

<!ELEMENT tb-terse-transient EMPTY>

<!ELEMENT this-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT time-since-last-tc (#PCDATA)>

<!ELEMENT timer-expires (#PCDATA)>

<!ELEMENT timer-flags (#PCDATA)>

<!ELEMENT timer-interval (#PCDATA)>

```
<!ELEMENT timer-jitter (#PCDATA)>
<!ELEMENT timer-late EMPTY>
<!ELEMENT timer-name (#PCDATA)>
<!ELEMENT tlp-alloc-bytes (#PCDATA)>
<!ELEMENT tlp-alloc-pages (#PCDATA)>
<!ELEMENT tlp-max-alloc-bytes (#PCDATA)>
<!ELEMENT tlp-max-alloc-pages (#PCDATA)>
<!ELEMENT tlp-name (#PCDATA)>
<!ELEMENT tm-alloc-bytes (#PCDATA)>
<!ELEMENT tm-allocs (#PCDATA)>
<!ELEMENT tm-function-calls (#PCDATA)>
<!ELEMENT tm-max-alloc-bytes (#PCDATA)>
<!ELEMENT tm-max-allocs (#PCDATA)>
<!ELEMENT tm-name (#PCDATA)>
<!ELEMENT tms-alloc-bytes (#PCDATA)>
<!ELEMENT tms-allocs (#PCDATA)>
<!ELEMENT tms-free-bytes (#PCDATA)>
<!ELEMENT tms-mallocs (#PCDATA)>
<!ELEMENT tms-max-allocs (#PCDATA)>
<!ELEMENT tms-max-bytes (#PCDATA)>
<!ELEMENT tms-name (#PCDATA)>
<!ELEMENT topology-change-count (#PCDATA)>
<!ELEMENT total-bpdus-received (#PCDATA)>
<!ELEMENT total-bpdus-sent (#PCDATA)>
<!ELEMENT transmit-period (#PCDATA)>
<!ELEMENT tsb-alloc-bytes (#PCDATA)>
<!ELEMENT tsb-allocs (#PCDATA)>
<!ELEMENT tsb-free-bytes (#PCDATA)>
<!ELEMENT tsb-mallocs (#PCDATA)>
```

<!ELEMENT tsb-max-allocs (#PCDATA)>

<!ELEMENT tsb-max-bytes (#PCDATA)>

<!ELEMENT tsb-size (#PCDATA)>

<!ELEMENT tsb-terse-fullpage EMPTY>

<!ELEMENT tsb-terse-transient EMPTY>

<!ELEMENT user-mac-address (#PCDATA)>

<!ELEMENT user-name (#PCDATA)>

<!ELEMENT vlan-map (vlan-map-entry)*>

<!ELEMENT vlan-map-entry (msti-id | vlan-string)*>

<!ELEMENT vlan-string (#PCDATA)>

<!ELEMENT vst-bridge-parameters (root-bridge | root-port | root-cost | hello-time-learned | max-age-learned | forward-delay-learned | msg-age | time-since-last-tc | topology-change-count | extended-system-id | this-bridge | hello-time-configured | max-age-configured | forward-delay-configured | path-cost-method)*>

<!ELEMENT vstp-interface-statistics (stp-interface-statistics-entry)*>

<!ELEMENT vstp-statistics (message-type | total-bpdus-sent | total-bpdus-received | bpdus-sent-5seconds | bpdus-received-5seconds)*>

<!ELEMENT wtr-timer (#PCDATA)>

Chapter 41

DTD for Link-Fault Management Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-lfm.dtd, which lists the JUNOS XML tags that contain information about link-fault management (802.3ah Operation, Administration, and Management). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-lfm. To review reference pages for the tags, see "Summary of Link-Fault Management Response Tags" on page 1271.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
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<!– junos-lfm.dtd –>

<!ELEMENT lfmd-action-profile-execution-count (#PCDATA)>

<!ELEMENT lfmd-action-profile-information (lfmd-action-profile-name |
lfmd-action-profile-invoke-count | lfmd-action-profile-execution-count)*>

<!ELEMENT lfmd-action-profile-invoke-count (#PCDATA)>

<!ELEMENT lfmd-action-profile-name (#PCDATA)>

<!ELEMENT lfmd-clear-output (#PCDATA)>

<!ELEMENT lfmd-critical-event-received (#PCDATA)>

<!ELEMENT lfmd-discovery-flags (lfmd-flag-remote-stable | lfmd-flag-remote-evaluating |
lfmd-flag-remote-state-valid | lfmd-flag-local-satisfied | lfmd-flag-local-stable |
lfmd-pdu-flags)*>

<!ELEMENT lfmd-discovery-state (#PCDATA)>

<!ELEMENT lfmd-dying-gasp-received (#PCDATA)>

<!ELEMENT lfmd-event-pdus-received (#PCDATA)>

<!ELEMENT lfmd-event-pdus-transmitted (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-error (lfmd-event-received-frame-error-window |
lfmd-event-received-frame-error-threshold | lfmd-event-received-frame-error-count |
lfmd-event-received-frame-error-total-count | lfmd-event-received-frame-count)*>
```

```
<!ELEMENT lfmd-event-received-frame-error-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-error-threshold (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-error-total-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-error-window (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-period-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-period-error
(lfmd-event-received-frame-period-error-window |
lfmd-event-received-frame-period-error-threshold |
lfmd-event-received-frame-period-error-count |
lfmd-event-received-frame-period-error-total-count |
lfmd-event-received-frame-period-count)*>

<!ELEMENT lfmd-event-received-frame-period-error-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-period-error-threshold (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-period-error-total-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-period-error-window (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-seconds-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-seconds-error
(lfmd-event-received-frame-seconds-error-window |
lfmd-event-received-frame-seconds-error-threshold |
lfmd-event-received-frame-seconds-error-count |
lfmd-event-received-frame-seconds-error-total-count |
lfmd-event-received-frame-seconds-count)*>

<!ELEMENT lfmd-event-received-frame-seconds-error-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-seconds-error-threshold (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-seconds-error-total-count (#PCDATA)>

<!ELEMENT lfmd-event-received-frame-seconds-error-window (#PCDATA)>

<!ELEMENT lfmd-event-received-symbol-count (#PCDATA)>

<!ELEMENT lfmd-event-received-symbol-error (lfmd-event-received-symbol-error-window |
lfmd-event-received-symbol-error-threshold | lfmd-event-received-symbol-error-count |
lfmd-event-received-symbol-error-total-count | lfmd-event-received-symbol-count)*>

<!ELEMENT lfmd-event-received-symbol-error-count (#PCDATA)>

<!ELEMENT lfmd-event-received-symbol-error-threshold (#PCDATA)>

<!ELEMENT lfmd-event-received-symbol-error-total-count (#PCDATA)>

<!ELEMENT lfmd-event-received-symbol-error-window (#PCDATA)>
```

```
<!ELEMENT lfmd-event-transmitted-frame-count (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-frame-error
(lfmd-event-transmitted-frame-error-window |
lfmd-event-transmitted-frame-error-threshold | lfmd-event-transmitted-frame-error-count |
lfmd-event-transmitted-frame-error-total-count | lfmd-event-transmitted-frame-count)*>

<!ELEMENT lfmd-event-transmitted-frame-error-count (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-frame-error-threshold (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-frame-error-total-count (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-frame-error-window (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-symbol-count (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-symbol-error
(lfmd-event-transmitted-symbol-error-window |
lfmd-event-transmitted-symbol-error-threshold |
lfmd-event-transmitted-symbol-error-count |
lfmd-event-transmitted-symbol-error-total-count |
lfmd-event-transmitted-symbol-count)*>

<!ELEMENT lfmd-event-transmitted-symbol-error-count (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-symbol-error-threshold (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-symbol-error-total-count (#PCDATA)>

<!ELEMENT lfmd-event-transmitted-symbol-error-window (#PCDATA)>

<!ELEMENT lfmd-events (lfmd-events-received | lfmd-events-transmitted)*>

<!ELEMENT lfmd-events-received (lfmd-event-received-symbol-error |
lfmd-event-received-frame-error | lfmd-event-received-frame-period-error |
lfmd-event-received-frame-seconds-error)*>

<!ELEMENT lfmd-events-transmitted (lfmd-event-transmitted-symbol-error |
lfmd-event-transmitted-frame-error)*>

<!ELEMENT lfmd-flag-local-satisfied EMPTY>

<!ELEMENT lfmd-flag-local-stable EMPTY>

<!ELEMENT lfmd-flag-remote-evaluating EMPTY>

<!ELEMENT lfmd-flag-remote-stable EMPTY>

<!ELEMENT lfmd-flag-remote-state-valid EMPTY>

<!ELEMENT lfmd-information (lfmd-interface-information |
lfmd-action-profile-information)*>
<!ATTLIST lfmd-information junos:style CDATA #IMPLIED>

<!ELEMENT lfmd-information-pdus-received (#PCDATA)>
```

<!ELEMENT lfmd-information-pdus-transmitted (#PCDATA)>

<!ELEMENT lfmd-interface-information (lfmd-interface-name | lfmd-status |
lfmd-discovery-state | lfmd-discovery-flags | lfmd-peer-address | lfmd-peer-mux-action |
lfmd-peer-parser-action | lfmd-peer-config-mode | lfmd-peer-config-unidirectional |
lfmd-peer-config-loopback | lfmd-peer-config-link-events |
lfmd-peer-config-variable-request | lfmd-loopback-local-enabled |
lfmd-loopback-remote-enabled | lfmd-statistics | lfmd-events)*>

<!ELEMENT lfmd-interface-name (#PCDATA)>

<!ELEMENT lfmd-link-fault-received (#PCDATA)>

<!ELEMENT lfmd-loopback-control-pdus-received (#PCDATA)>

<!ELEMENT lfmd-loopback-control-pdus-transmitted (#PCDATA)>

<!ELEMENT lfmd-loopback-local-enabled EMPTY>

<!ELEMENT lfmd-loopback-remote-enabled EMPTY>

<!ELEMENT lfmd-organization-pdus-received (#PCDATA)>

<!ELEMENT lfmd-organization-pdus-transmitted (#PCDATA)>

<!ELEMENT lfmd-pdu-flags (#PCDATA)>

<!ELEMENT lfmd-peer-address (#PCDATA)>

<!ELEMENT lfmd-peer-config-link-events (#PCDATA)>

<!ELEMENT lfmd-peer-config-loopback (#PCDATA)>

<!ELEMENT lfmd-peer-config-mode (#PCDATA)>

<!ELEMENT lfmd-peer-config-unidirectional (#PCDATA)>

<!ELEMENT lfmd-peer-config-variable-request (#PCDATA)>

<!ELEMENT lfmd-peer-mux-action (#PCDATA)>

<!ELEMENT lfmd-peer-parser-action (#PCDATA)>

<!ELEMENT lfmd-statistics (lfmd-statistics-received | lfmd-statistics-transmitted)*>

<!ELEMENT lfmd-statistics-received (lfmd-information-pdus-received |
lfmd-event-pdus-received | lfmd-variable-request-pdus-received |
lfmd-variable-response-pdus-received | lfmd-loopback-control-pdus-received |
lfmd-organization-pdus-received | lfmd-unknown-pdus-received |
lfmd-critical-event-received | lfmd-dying-gasp-received | lfmd-link-fault-received)*>

<!ELEMENT lfmd-statistics-transmitted (lfmd-information-pdus-transmitted |
lfmd-event-pdus-transmitted | lfmd-variable-request-pdus-transmitted |
lfmd-variable-response-pdus-transmitted | lfmd-loopback-control-pdus-transmitted |
lfmd-organization-pdus-transmitted | lfmd-unknown-pdus-transmitted)*>

<!ELEMENT lfmd-status (#PCDATA)>

```
<!ELEMENT lfmd-unknown-pdus-received (#PCDATA)>
<!ELEMENT lfmd-unknown-pdus-transmitted (#PCDATA)>
<!ELEMENT lfmd-variable-request-pdus-received (#PCDATA)>
<!ELEMENT lfmd-variable-request-pdus-transmitted (#PCDATA)>
<!ELEMENT lfmd-variable-response-pdus-received (#PCDATA)>
<!ELEMENT lfmd-variable-response-pdus-transmitted (#PCDATA)>
```

Chapter 42

DTD for License Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-license.dtd, which lists the JUNOS XML tags that contain information about licenses on J Series routers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-license. To review reference pages for the tags, see "Summary of License Response Tags" on page 1262.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-license.dtd –>

<!ELEMENT add-error-count (#PCDATA)>

<!ELEMENT add-individual-result (operation-status | filename | line-number | name |
message)*>

<!ELEMENT add-license-results (add-individual-result | add-error-count | add-success)*>

<!ELEMENT add-success EMPTY>

<!ELEMENT description (#PCDATA)>

<!ELEMENT device-reference (#PCDATA)>

<!ELEMENT end-date (#PCDATA)>
<!ATTLIST end-date junos:seconds CDATA #IMPLIED>

<!ELEMENT feature (name | description | validity-information)*>
<!ATTLIST feature junos:style CDATA #IMPLIED>

<!ELEMENT feature-block (feature)*>

<!ELEMENT feature-summary (name | description | licensed | used-licensed | used-given
| needed | validity-type | remaining-time | end-date)*>

<!ELEMENT features-used EMPTY>

<!ELEMENT filename (#PCDATA)>

<!ELEMENT group-define (#PCDATA)>

<!ELEMENT group-reference (#PCDATA)>

<!ELEMENT key-data (#PCDATA)>
```

```
<!ELEMENT license (name | license-state | license-version | license-type |
device-reference | group-reference | group-define | unsupported-attribute |
feature-block)*>

<!ELEMENT license-information (no-licenses-installed | licenses-installed | license)*>

<!ELEMENT license-key (name | key-data)*>

<!ELEMENT license-key-information (license-key)*>

<!ELEMENT license-state (#PCDATA)>

<!ELEMENT license-summary-information (license-usage-summary |
license-information)*>

<!ELEMENT license-type (#PCDATA)>

<!ELEMENT license-usage-summary (features-used | no-feature-used |
feature-summary)*>

<!ELEMENT license-version (#PCDATA)>

<!ELEMENT licensed (#PCDATA)>

<!ELEMENT licenses-installed EMPTY>

<!ELEMENT line-number (#PCDATA)>

<!ELEMENT message (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT needed (#PCDATA)>

<!ELEMENT no-feature-used EMPTY>

<!ELEMENT no-licenses-installed EMPTY>

<!ELEMENT operation-status (#PCDATA)>
<!ATTLIST operation-status junos:format CDATA #IMPLIED>

<!ELEMENT original-validity (original-validity-value | original-validity-time-unit)*>

<!ELEMENT original-validity-time-unit (#PCDATA)>

<!ELEMENT original-validity-value (#PCDATA)>
<!ATTLIST original-validity-value junos:seconds CDATA #IMPLIED>

<!ELEMENT remaining-time (remaining-validity-value | remaining-validity-time-unit)*>

<!ELEMENT remaining-validity-time-unit (#PCDATA)>

<!ELEMENT remaining-validity-value (#PCDATA)>
<!ATTLIST remaining-validity-value junos:seconds CDATA #IMPLIED>

<!ELEMENT start-date (#PCDATA)>
```

```
<!ATTLIST start-date junos:seconds CDATA #IMPLIED>

<!ELEMENT unsupported-attribute (#PCDATA)>

<!ELEMENT used-given (#PCDATA)>
<!ATTLIST used-given junos:format CDATA #IMPLIED>

<!ELEMENT used-licensed (#PCDATA)>

<!ELEMENT validity-information (validity-type | original-validity | remaining-time |
start-date | end-date | license-state)*>

<!ELEMENT validity-type (#PCDATA)>
```

Chapter 43

DTD for Licensed Feature Metadata Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-licensed-feature-metadata.dtd, which lists the JUNOS XML tags that contain information about licensed feature metadata. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-licensed-feature-metadata. To review reference pages for the tags, see "Summary of Licensed Feature Metadata Response Tags" on page 1269.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-licensed-feature-metadata.dtd –>

<!ELEMENT alias (base-feature | cummulative-value)*>

<!ELEMENT base-feature (#PCDATA)>

<!ELEMENT cummulative-value (#PCDATA)>

<!ELEMENT description (#PCDATA)>

<!ELEMENT flag (#PCDATA)>

<!ELEMENT id (#PCDATA)>

<!ELEMENT licensed-feature (id | name | description | flag | alias)*>

<!ELEMENT licensed-feature-metadata-information (licensed-feature)*>

<!ELEMENT name (#PCDATA)>
```

Chapter 44

DTD for MPLS OAM Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-mplsoamd.dtd, which lists the JUNOS XML tags that contain MPLS OAM information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-mplsoamd. To review reference pages for the tags, see "Summary of MPLS OAM ResponseTags" on page 1313.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-mplsoamd.dtd –>

<!ELEMENT address (#PCDATA)>

<!ELEMENT address-range-index (#PCDATA)>

<!ELEMENT count (#PCDATA)>

<!ELEMENT database (#PCDATA)>

<!ELEMENT date-time (#PCDATA)>
<!ATTLIST date-time junos:seconds CDATA #IMPLIED>

<!ELEMENT depth (#PCDATA)>

<!ELEMENT fec (fec-prefix)*>

<!ELEMENT fec-prefix (#PCDATA)>

<!ELEMENT high-address (#PCDATA)>

<!ELEMENT instance (count)*>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT label-depth (#PCDATA)>

<!ELEMENT label-protocol (#PCDATA)>

<!ELEMENT label-value (#PCDATA)>

<!ELEMENT last-trace-time (date-time)*>

<!ELEMENT low-address (#PCDATA)>
```

```
<!ELEMENT mtu (#PCDATA)>

<!ELEMENT multipath-information (multipath-type | address-range-index | low-address |
high-address)*>

<!ELEMENT multipath-type (#PCDATA)>

<!ELEMENT next-scheduled-trace (timer-expiry)*>

<!ELEMENT options (probe-ttl | probe-retries | probe-wait | probe-paths | probe-source |
probe-destination | probe-exp | probe-fanout)*>

<!ELEMENT parent (#PCDATA)>

<!ELEMENT path-index (#PCDATA)>

<!ELEMENT path-status (#PCDATA)>

<!ELEMENT probe-destination (#PCDATA)>

<!ELEMENT probe-exp (#PCDATA)>

<!ELEMENT probe-fanout (#PCDATA)>

<!ELEMENT probe-options (probe-ttl | probe-retries | probe-wait | probe-paths |
probe-source | probe-destination | probe-exp | probe-fanout)*>

<!ELEMENT probe-paths (#PCDATA)>

<!ELEMENT probe-retries (#PCDATA)>

<!ELEMENT probe-source (#PCDATA)>

<!ELEMENT probe-ttl (#PCDATA)>

<!ELEMENT probe-wait (#PCDATA)>

<!ELEMENT receiver-timestamp (#PCDATA)>
<!ATTLIST receiver-timestamp junos:seconds CDATA #IMPLIED>
<!ATTLIST receiver-timestamp junos:microseconds CDATA #IMPLIED>

<!ELEMENT response-time (#PCDATA)>

<!ELEMENT return-code (#PCDATA)>

<!ELEMENT scan-status (status)*>

<!ELEMENT sender-timestamp (#PCDATA)>
<!ATTLIST sender-timestamp junos:seconds CDATA #IMPLIED>
<!ATTLIST sender-timestamp junos:microseconds CDATA #IMPLIED>

<!ELEMENT status (#PCDATA)>

<!ELEMENT test (#PCDATA)>

<!ELEMENT timer-expiry (#PCDATA)>
```

```
<!ELEMENT tracelsp (#PCDATA)>

<!ELEMENT tracelsp-label (label-value | label-depth | label-protocol)*>
<!ATTLIST tracelsp-label junos:style CDATA #IMPLIED>

<!ELEMENT tracelsp-node (depth | label-value | label-protocol | address | parent |
response-time | return-code | multipath-type | sender-timestamp | receiver-timestamp |
status | path-index | path-status | probe-destination | mtu | interface)*>
<!ATTLIST tracelsp-node junos:style CDATA #IMPLIED>
```

Chapter 45

DTD for MIP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-mip.dtd, which lists the JUNOS XML tags that contain MIP information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-mip. To review reference pages for the tags, see "Summary of MIP Response Tags" on page 1297.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-mip.dtd –>

<!ELEMENT addr-pool (start-addr | end-addr)*>

<!ELEMENT address (#PCDATA)>

<!ELEMENT address-list (address)*>

<!ELEMENT administrative-prohibited (#PCDATA)>

<!ELEMENT authentication (#PCDATA)>

<!ELEMENT bad-lifetime (#PCDATA)>

<!ELEMENT bad-request (#PCDATA)>

<!ELEMENT count (#PCDATA)>

<!ELEMENT end-addr (#PCDATA)>

<!ELEMENT failed-fa (#PCDATA)>

<!ELEMENT failed-ha (#PCDATA)>

<!ELEMENT failed-mn (#PCDATA)>

<!ELEMENT ha-unreachable (#PCDATA)>

<!ELEMENT id-mismatch (#PCDATA)>

<!ELEMENT identification (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>
```

```
<!ELEMENT lifetime-granted (#PCDATA)>

<!ELEMENT lifetime-remaining (#PCDATA)>

<!ELEMENT mip-binding (mip-home-address | mip-nai | mip-home-agent |
mip-care-of-address | lifetime-granted | lifetime-remaining | tunnel-type | tunnel-id |
tunnel-source | tunnel-destination | identification | revocation-support |
revocation-inform | count | state | session-id)*>

<!ELEMENT mip-binding-information (mip-binding)*>
<!ATTLIST mip-binding-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-care-of-address (#PCDATA)>

<!ELEMENT mip-error (mip-error-message)*>

<!ELEMENT mip-error-message (#PCDATA)>

<!ELEMENT mip-fa (mip-fa-status | mip-fa-max-pending-request | mip-fa-request-timeout
| mip-fa-registration-required | mip-fa-registration-lifetime | mip-fa-coa |
mip-fa-serice-enabled | mip-fa-reverse-tunnel)*>

<!ELEMENT mip-fa-coa (#PCDATA)>

<!ELEMENT mip-fa-information (mip-fa)*>
<!ATTLIST mip-fa-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-fa-max-pending-request (#PCDATA)>

<!ELEMENT mip-fa-registration-lifetime (#PCDATA)>

<!ELEMENT mip-fa-registration-required (#PCDATA)>

<!ELEMENT mip-fa-request-timeout (#PCDATA)>

<!ELEMENT mip-fa-reverse-tunnel (#PCDATA)>

<!ELEMENT mip-fa-serice-enabled (#PCDATA)>

<!ELEMENT mip-fa-status (#PCDATA)>

<!ELEMENT mip-home-address (#PCDATA)>

<!ELEMENT mip-home-agent (#PCDATA)>

<!ELEMENT mip-home-agent-interface-network (interface | mip-home-agent |
registration-lifetime | time-tolerance | addr-pool | number-of-mn | mip-home-address |
range | mip-nai | mip-care-of-address | lifetime-granted | lifetime-remaining)*>

<!ELEMENT mip-home-agent-interface-network-information
(mip-home-agent-interface-network)*>
<!ATTLIST mip-home-agent-interface-network-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-home-agent-overview (status | service-enabled-on | address-list |
authentication)*>
```

```
<!ELEMENT mip-home-agent-overview-information (mip-home-agent-overview)*>
<!ATTLIST mip-home-agent-overview-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-home-agent-traffic (request-received | request-forwarded |
request-denied | replies-forwarded | unspecified | administrative-prohibited |
no-resource | bad-request | too-many-bindings | unknown-ha | id-mismatch |
unavailable-reverse-tunnel | unavailable-encapsulation | failed-mn | failed-fa)*>

<!ELEMENT mip-home-agent-traffic-information (mip-home-agent-traffic)*>
<!ATTLIST mip-home-agent-traffic-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-home-agent-virtual-network (mip-home-agent | registration-lifetime |
time-tolerance | addr-pool | number-of-mn | mip-home-address | mip-nai |
mip-care-of-address | lifetime-granted | lifetime-remaining)*>

<!ELEMENT mip-home-agent-virtual-network-information
(mip-home-agent-virtual-network)*>
<!ATTLIST mip-home-agent-virtual-network-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-memory (mip-memory-size | mip-memory-file-name |
mip-memory-line-number | mip-memory-allocated-memory)*>

<!ELEMENT mip-memory-allocated-memory (#PCDATA)>

<!ELEMENT mip-memory-file-name (#PCDATA)>

<!ELEMENT mip-memory-information (mip-memory)*>
<!ATTLIST mip-memory-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-memory-line-number (#PCDATA)>

<!ELEMENT mip-memory-size (#PCDATA)>

<!ELEMENT mip-nai (#PCDATA)>

<!ELEMENT mip-statistics-information (registration-request-received |
registration-request-accepted | registration-request-rejected)*>

<!ELEMENT mip-traffic (request-received | request-forwarded | request-denied |
replies-received | replies-forwarded | replies-denied | unspecified | ha-unreachable |
administrative-prohibited | no-resource | bad-lifetime | bad-request |
unavailable-encapsulation | unavailable-reverse-tunnel | failed-mn | failed-ha |
unknown-challenge | missing-challenge | stale-challenge)*>

<!ELEMENT mip-traffic-information (mip-traffic)*>
<!ATTLIST mip-traffic-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-tunnel (mip-tunnel-source | mip-tunnel-destination | mip-tunnel-type)*>

<!ELEMENT mip-tunnel-destination (#PCDATA)>

<!ELEMENT mip-tunnel-information (mip-tunnel)*>
<!ATTLIST mip-tunnel-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-tunnel-source (#PCDATA)>

<!ELEMENT mip-tunnel-type (#PCDATA)>
```

```
<!ELEMENT mip-violation (mip-nai | mip-home-address | mip-violation-code |
mip-violation-time | mip-violation-spi | mip-violation-error-code | mip-violation-reason |
mip-violation-count-per-peer | mip-violation-totol-count)*>

<!ELEMENT mip-violation-code (#PCDATA)>

<!ELEMENT mip-violation-count-per-peer (#PCDATA)>

<!ELEMENT mip-violation-error-code (#PCDATA)>

<!ELEMENT mip-violation-information (mip-violation)*>
<!ATTLIST mip-violation-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-violation-reason (#PCDATA)>

<!ELEMENT mip-violation-spi (#PCDATA)>

<!ELEMENT mip-violation-time (#PCDATA)>

<!ELEMENT mip-violation-totol-count (#PCDATA)>

<!ELEMENT mip-visitor (mip-nai | mip-home-address | mip-home-agent |
mip-care-of-address | mip-visitor-time-requested | mip-visitor-time-alloted |
mip-visitor-time-remaining | mip-visitor-count | mip-visitor-pending-count)*>

<!ELEMENT mip-visitor-count (#PCDATA)>

<!ELEMENT mip-visitor-information (mip-visitor)*>
<!ATTLIST mip-visitor-information junos:style CDATA #IMPLIED>

<!ELEMENT mip-visitor-pending-count (#PCDATA)>

<!ELEMENT mip-visitor-time-alloted (#PCDATA)>

<!ELEMENT mip-visitor-time-remaining (#PCDATA)>

<!ELEMENT mip-visitor-time-requested (#PCDATA)>

<!ELEMENT mip-wimax-release (release)*>

<!ELEMENT mip-wimax-release-information (mip-wimax-release)*>
<!ATTLIST mip-wimax-release-information junos:style CDATA #IMPLIED>

<!ELEMENT missing-challenge (#PCDATA)>

<!ELEMENT no-resource (#PCDATA)>

<!ELEMENT number-of-mn (#PCDATA)>

<!ELEMENT range (#PCDATA)>

<!ELEMENT registration-lifetime (#PCDATA)>

<!ELEMENT registration-request-accepted (#PCDATA)>

<!ELEMENT registration-request-received (#PCDATA)>
```

```
<!ELEMENT registration-request-rejected (#PCDATA)>
<!ELEMENT release (#PCDATA)>
<!ELEMENT replies-denied (#PCDATA)>
<!ELEMENT replies-forwarded (#PCDATA)>
<!ELEMENT replies-received (#PCDATA)>
<!ELEMENT request-denied (#PCDATA)>
<!ELEMENT request-forwarded (#PCDATA)>
<!ELEMENT request-received (#PCDATA)>
<!ELEMENT revocation-inform (#PCDATA)>
<!ELEMENT revocation-support (#PCDATA)>
<!ELEMENT service-enabled-on (interface-name)*>
<!ELEMENT session-id (#PCDATA)>
<!ELEMENT stale-challenge (#PCDATA)>
<!ELEMENT start-addr (#PCDATA)>
<!ELEMENT state (#PCDATA)>
<!ELEMENT status (#PCDATA)>
<!ELEMENT time-tolerance (#PCDATA)>
<!ELEMENT too-many-bindings (#PCDATA)>
<!ELEMENT tunnel-destination (#PCDATA)>
<!ELEMENT tunnel-id (#PCDATA)>
<!ELEMENT tunnel-source (#PCDATA)>
<!ELEMENT tunnel-type (#PCDATA)>
<!ELEMENT unavailable-encapsulation (#PCDATA)>
<!ELEMENT unavailable-reverse-tunnel (#PCDATA)>
<!ELEMENT unknown-challenge (#PCDATA)>
<!ELEMENT unknown-ha (#PCDATA)>
<!ELEMENT unspecified (#PCDATA)>
```

Chapter 46

DTD for MSP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-mspinfo.dtd, which lists the JUNOS XML tags that contain MSP information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-mspinfo. To review reference pages for the tags, see Summary of MSP Response Tags on page 1312.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-mspinfo.dtd –>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT mspinfo-raw-output (interface-name | raw-output)*>

<!ELEMENT raw-output (#PCDATA)>
```

Chapter 47

DTD for Passive Monitoring Interfaces Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-passive-monitoring.dtd, which lists the JUNOS XML tags that contain information about passive monitoring interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-passive-monitoring. To review reference pages for the tags, see "Summary of Passive Monitoring Interfaces Response Tags" on page 1320.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-passive-monitoring.dtd –>

<!ELEMENT active-flows (#PCDATA)>

<!ELEMENT allocation-count (#PCDATA)>

<!ELEMENT allocations-per-second (#PCDATA)>

<!ELEMENT error-allocation-failures (#PCDATA)>

<!ELEMENT error-bytes-per-second-overload (#PCDATA)>

<!ELEMENT error-free-failures (#PCDATA)>

<!ELEMENT error-free-list-failures (#PCDATA)>

<!ELEMENT error-information (error-packets-dropped-no-memory |
error-packets-dropped-not-ip | error-packets-dropped-not-ipv4 | error-packets-too-small |
error-allocation-failures | error-free-failures | error-free-list-failures |
error-memory-warning | error-memory-overload | error-packets-per-second-overload |
error-bytes-per-second-overload)*>

<!ELEMENT error-memory-overload (#PCDATA)>

<!ELEMENT error-memory-warning (#PCDATA)>

<!ELEMENT error-packets-dropped-no-memory (#PCDATA)>

<!ELEMENT error-packets-dropped-not-ip (#PCDATA)>

<!ELEMENT error-packets-dropped-not-ipv4 (#PCDATA)>
```

<!ELEMENT error-packets-per-second-overload (#PCDATA)>

<!ELEMENT error-packets-too-small (#PCDATA)>

<!ELEMENT five-second-load (#PCDATA)>

<!ELEMENT flow-bytes (#PCDATA)>

<!ELEMENT flow-bytes-ten-second-rate (#PCDATA)>

<!ELEMENT flow-information (flow-packets | flow-bytes | flow-packets-ten-second-rate | flow-bytes-ten-second-rate | active-flows | flows | flows-exported | flow-packets-exported | flows-expired | flows-aged)*>

<!ELEMENT flow-packets (#PCDATA)>

<!ELEMENT flow-packets-exported (#PCDATA)>

<!ELEMENT flow-packets-ten-second-rate (#PCDATA)>

<!ELEMENT flows (#PCDATA)>

<!ELEMENT flows-aged (#PCDATA)>

<!ELEMENT flows-expired (#PCDATA)>

<!ELEMENT flows-exported (#PCDATA)>

<!ELEMENT free-count (#PCDATA)>

<!ELEMENT frees-per-second (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT inttime (#PCDATA)>

<!ELEMENT local-index (#PCDATA)>

<!ELEMENT maximum-allocated (#PCDATA)>

<!ELEMENT memory-free (#PCDATA)>

<!ELEMENT memory-information (allocation-count | free-count | maximum-allocated | allocations-per-second | frees-per-second | memory-used | memory-free)*>

<!ELEMENT memory-used (#PCDATA)>

<!ELEMENT one-minute-load (#PCDATA)>

<!ELEMENT passive-monitoring-information (interface-name | local-index | pic-status | usage-information | memory-information | flow-information | error-information | status-information)*>

<!ELEMENT pic-status (#PCDATA)>

<!ELEMENT status-as-count (#PCDATA)>

```
<!ELEMENT status-engine-id (#PCDATA)>

<!ELEMENT status-engine-type (#PCDATA)>

<!ELEMENT status-export-format (#PCDATA)>

<!ELEMENT status-export-interval (#PCDATA)>

<!ELEMENT status-group-index (#PCDATA)>

<!ELEMENT status-ifl-snmp-map-count (#PCDATA)>

<!ELEMENT status-information (status-group-index | status-export-interval |
status-export-format | status-proto | status-engine-type | status-engine-id |
status-route-record-count | status-ifl-snmp-map-count | status-as-count |
status-monitor-time-set | status-monitor-config-set | status-monitor-route-record-set |
status-monitor-ifl-snmp-set)*>

<!ELEMENT status-monitor-config-set (#PCDATA)>

<!ELEMENT status-monitor-ifl-snmp-set (#PCDATA)>

<!ELEMENT status-monitor-route-record-set (#PCDATA)>

<!ELEMENT status-monitor-time-set (#PCDATA)>

<!ELEMENT status-proto (#PCDATA)>

<!ELEMENT status-route-record-count (#PCDATA)>

<!ELEMENT uptime (#PCDATA)>

<!ELEMENT usage-information (uptime | inttime | five-second-load | one-minute-load)*>
```

Chapter 48

DTD for PGM Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-pgm.dtd, which lists the JUNOS XML tags that contain Pragmatic General Multicast (PGM) protocol information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-pgm. To review reference pages for the tags, see "Summary of Pragmatic General Multicast Response Tags" on page 1327.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-pgm.dtd –>

<!ELEMENT bad-checksum (#PCDATA)>

<!ELEMENT bad-nak-family (#PCDATA)>

<!ELEMENT bad-nak-length (#PCDATA)>

<!ELEMENT bad-ncf-family (#PCDATA)>

<!ELEMENT bad-ncf-length (#PCDATA)>

<!ELEMENT bad-rdata-length (#PCDATA)>

<!ELEMENT bad-spm-family (#PCDATA)>

<!ELEMENT bad-spm-length (#PCDATA)>

<!ELEMENT bad-tsdu-length (#PCDATA)>

<!ELEMENT clear-pgm-nak EMPTY>

<!ELEMENT clear-pgm-spm EMPTY>

<!ELEMENT clear-pgm-statistics EMPTY>

<!ELEMENT errors (short-pgm-header | bad-checksum | zero-checksum | bad-tsdu-length
| bad-spm-length | bad-spm-family | bad-nak-length | bad-nak-family | nak-unknown-tsi |
nak-throttled | bad-ncf-length | bad-ncf-family | ncf-unknown-tsi | bad-rdata-length |
rdata-unknown-tsi | odata-with-ra)*>

<!ELEMENT nak (received | sent)*>

<!ELEMENT nak-throttled (#PCDATA)>
```

```
<!ELEMENT nak-unknown-tsi (#PCDATA)>

<!ELEMENT ncf (received | sent)*>

<!ELEMENT ncf-unknown-tsi (#PCDATA)>

<!ELEMENT nullnak (received | sent)*>

<!ELEMENT odata-with-ra (#PCDATA)>

<!ELEMENT other (received | sent)*>

<!ELEMENT packet-counters (spm | poll | polr | rdata | nak | nullnak | ncf | spmr | other |
errors)*>

<!ELEMENT pgm-nak-group (#PCDATA)>

<!ELEMENT pgm-nak-interface (pgm-nak-interface-name | pgm-nak-interface-sender)*>

<!ELEMENT pgm-nak-interface-name (#PCDATA)>

<!ELEMENT pgm-nak-interface-sender (#PCDATA)>

<!ELEMENT pgm-nak-sequence (#PCDATA)>

<!ELEMENT pgm-nak-source (#PCDATA)>

<!ELEMENT pgm-spm-gsid (#PCDATA)>

<!ELEMENT pgm-spm-information (pgm-spm-tsi)*>
<!ATTLIST pgm-spm-information junos:style CDATA #IMPLIED>

<!ELEMENT pgm-spm-lead (#PCDATA)>

<!ELEMENT pgm-spm-nak (pgm-nak-sequence | pgm-nak-source | pgm-nak-group |
pgm-nak-interface)*>

<!ELEMENT pgm-spm-nla (#PCDATA)>

<!ELEMENT pgm-spm-seq (#PCDATA)>

<!ELEMENT pgm-spm-sport (#PCDATA)>

<!ELEMENT pgm-spm-trail (#PCDATA)>

<!ELEMENT pgm-spm-tsi (pgm-spm-gsid | pgm-spm-sport | pgm-spm-seq | pgm-spm-trail
| pgm-spm-lead | pgm-spm-nla | pgm-spm-nak)*>

<!ELEMENT pgm-statistics-information (packet-counters)*>

<!ELEMENT poll (received | sent)*>

<!ELEMENT polr (received | sent)*>

<!ELEMENT rdata (received | sent)*>
```

```
<!ELEMENT rdata-unknown-tsi (#PCDATA)>

<!ELEMENT received (#PCDATA)>

<!ELEMENT sent (#PCDATA)>

<!ELEMENT short-pgm-header (#PCDATA)>

<!ELEMENT spm (received | sent)*>

<!ELEMENT spmr (received | sent)*>

<!ELEMENT zero-checksum (#PCDATA)>
```

Chapter 49

DTD for Periodic Packet Management Response Tag Elements

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-ppm.dtd, which lists the JUNOS XML tag elements that contain periodic packet management process information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ppm. To review reference pages for the tag elements, see "Summary of Periodic Packet Management Response Tags" on page 1335.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-ppm.dtd –>

<!ELEMENT adjacency-bfd-discriminator (#PCDATA)>

<!ELEMENT adjacency-bfd-routing-table-index (#PCDATA)>

<!ELEMENT adjacency-cfm-source-key (#PCDATA)>

<!ELEMENT adjacency-data (protocol | adjacency-holdtime | adjacency-interface-index |
adjacency-no-absorb | adjacency-no-refresh | adjacency-do-not-age |
adjacency-hello-dropped | adjacency-distributed | adjacency-ospf-src-key |
adjacency-ospf-area-id | adjacency-ospf-transit-area-id |
adjacency-ospf-routing-table-index | adjacency-isis-level | adjacency-isis-sysid |
adjacency-esis-type | adjacency-bfd-discriminator | adjacency-bfd-routing-table-index |
adjacency-ldp-source | adjacency-ldp-routing-table-index | adjacency-stp-source-key |
adjacency-cfm-source-key | adjacency-pfe-handle | adjacency-pfe-addr)*>

<!ELEMENT adjacency-distributed EMPTY>

<!ELEMENT adjacency-do-not-age EMPTY>

<!ELEMENT adjacency-esis-type (#PCDATA)>

<!ELEMENT adjacency-hello-dropped EMPTY>

<!ELEMENT adjacency-holdtime (#PCDATA)>

<!ELEMENT adjacency-interface-index (#PCDATA)>

<!ELEMENT adjacency-isis-level (#PCDATA)>

<!ELEMENT adjacency-isis-sysid (#PCDATA)>
```

```
<!ELEMENT adjacency-ldp-routing-table-index (#PCDATA)>

<!ELEMENT adjacency-ldp-source (#PCDATA)>

<!ELEMENT adjacency-no-absorb EMPTY>

<!ELEMENT adjacency-no-refresh EMPTY>

<!ELEMENT adjacency-ospf-area-id (#PCDATA)>

<!ELEMENT adjacency-ospf-routing-table-index (#PCDATA)>

<!ELEMENT adjacency-ospf-src-key (#PCDATA)>

<!ELEMENT adjacency-ospf-transit-area-id (#PCDATA)>

<!ELEMENT adjacency-pfe-addr (#PCDATA)>

<!ELEMENT adjacency-pfe-handle (#PCDATA)>

<!ELEMENT adjacency-stp-source-key (#PCDATA)>

<!ELEMENT connection-data (protocol | logical-system-id | number-adjacencies |
number-transmissions)*>

<!ELEMENT interface-data (interface-key | protocol | interface-index |
interface-distributed | interface-pfe-handle | interface-pfe-addr)*>

<!ELEMENT interface-distributed EMPTY>

<!ELEMENT interface-index (#PCDATA)>

<!ELEMENT interface-key (#PCDATA)>

<!ELEMENT interface-pfe-addr (#PCDATA)>

<!ELEMENT interface-pfe-handle (#PCDATA)>

<!ELEMENT logical-system-id (#PCDATA)>

<!ELEMENT number-adjacencies (#PCDATA)>

<!ELEMENT number-transmissions (#PCDATA)>

<!ELEMENT ppm-adjacencies (adjacency-data | total-adjacencies |
remote-adjacencies)*>
<!ATTLIST ppm-adjacencies junos:style CDATA #IMPLIED>

<!ELEMENT ppm-connections (connection-data | total-connections |
remote-connections)*>
<!ATTLIST ppm-connections junos:style CDATA #IMPLIED>

<!ELEMENT ppm-interfaces (interface-data | total-interfaces | remote-interfaces)*>
<!ATTLIST ppm-interfaces junos:style CDATA #IMPLIED>
```

```
<!ELEMENT ppm-transmissions (transmission-data | total-transmissions |
remote-transmissions)*>
<!ATTLIST ppm-transmissions junos:style CDATA #IMPLIED>

<!ELEMENT protocol (#PCDATA)>

<!ELEMENT remote-adjacencies (#PCDATA)>

<!ELEMENT remote-connections (#PCDATA)>

<!ELEMENT remote-interfaces (#PCDATA)>

<!ELEMENT remote-transmissions (#PCDATA)>

<!ELEMENT total-adjacencies (#PCDATA)>

<!ELEMENT total-connections (#PCDATA)>

<!ELEMENT total-interfaces (#PCDATA)>

<!ELEMENT total-transmissions (#PCDATA)>

<!ELEMENT transmission-data (transmission-destination | protocol |
transmission-interval | transmission-distributed | transmission-pfe-handle |
transmission-pfe-addr)*>

<!ELEMENT transmission-destination (#PCDATA)>

<!ELEMENT transmission-distributed EMPTY>

<!ELEMENT transmission-interval (#PCDATA)>

<!ELEMENT transmission-pfe-addr (#PCDATA)>

<!ELEMENT transmission-pfe-handle (#PCDATA)>
```

Chapter 50

DTD for PPP Response Tag Elements

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-ppp.dtd, which lists the JUNOS XML tag elements that contain Point-to-Point Protocol (PPP) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-ppp. To review reference pages for the tag elements, see "Summary of PPP Response Tags" on page 1341.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-ppp.dtd –>

<!ELEMENT assigned-address-list (pool-address-assignment)*>

<!ELEMENT assigned-addresses (#PCDATA)>

<!ELEMENT authentication-algorithm (#PCDATA)>

<!ELEMENT authentication-protocol-name (#PCDATA)>

<!ELEMENT bcp-mac-support (#PCDATA)>

<!ELEMENT bcp-tagged-frame (#PCDATA)>

<!ELEMENT bundles-pending (#PCDATA)>

<!ELEMENT configured-addresses (#PCDATA)>

<!ELEMENT endpoint-discriminator-class (#PCDATA)>

<!ELEMENT endpoint-discriminator-identifier (#PCDATA)>

<!ELEMENT high-address (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT ipcp-address (local-address | remote-address)*>

<!ELEMENT ipcp-compression-protocol EMPTY>

<!ELEMENT ipcp-primary-dns (#PCDATA)>

<!ELEMENT ipcp-primary-wins (#PCDATA)>

<!ELEMENT ipcp-secondary-dns (#PCDATA)>
```

<!ELEMENT ipcp-secondary-wins (#PCDATA)>

<!ELEMENT ipv6cp-interface-identifier (local-interface-identifier | remote-interface-identifier)*>

<!ELEMENT lcp-address-compression-field-compression EMPTY>

<!ELEMENT lcp-async-map EMPTY>

<!ELEMENT lcp-authentication-protocol (authentication-protocol-name | authentication-algorithm)*>

<!ELEMENT lcp-endpoint-discriminator (endpoint-discriminator-class | endpoint-discriminator-identifier)*>

<!ELEMENT lcp-magic-number (#PCDATA)>

<!ELEMENT lcp-mrru (#PCDATA)>

<!ELEMENT lcp-mru (#PCDATA)>

<!ELEMENT lcp-multilink-header (multilink-header-code | multilink-header-suspendable-classes)*>

<!ELEMENT lcp-protocol-field-compression EMPTY>

<!ELEMENT lcp-short-sequence EMPTY>

<!ELEMENT local-address (#PCDATA)>

<!ELEMENT local-interface-identifier (#PCDATA)>

<!ELEMENT low-address (#PCDATA)>

<!ELEMENT multilink-header-code (#PCDATA)>

<!ELEMENT multilink-header-suspendable-classes (#PCDATA)>

<!ELEMENT pool-address (#PCDATA)>

<!ELEMENT pool-address-assignment (pool-address | session-name | pool-address-blocked)*>

<!ELEMENT pool-address-blocked EMPTY>

<!ELEMENT pool-address-list (pool-address)*>

<!ELEMENT pool-name (#PCDATA)>

<!ELEMENT pool-range (low-address | high-address)*>

<!ELEMENT ppp-address-pool-information (pool-name | assigned-addresses | configured-addresses | pool-range | pool-address-list | assigned-address-list)*>

<!ELEMENT ppp-auth-proto (#PCDATA)>

```
<!ELEMENT ppp-auth-protocol-information (ppp-state | ppp-last-started |
ppp-last-completed | ppp-auth-proto)*>
<!ATTLIST ppp-auth-protocol-information junos:style CDATA #IMPLIED>

<!ELEMENT ppp-destination-profile (pool-name)*>

<!ELEMENT ppp-interface-information (interface-name | ppp-session)*>
<!ATTLIST ppp-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT ppp-last-completed (#PCDATA)>
<!ATTLIST ppp-last-completed junos:seconds CDATA #IMPLIED>

<!ELEMENT ppp-last-started (#PCDATA)>
<!ATTLIST ppp-last-started junos:seconds CDATA #IMPLIED>

<!ELEMENT ppp-memory-statistics (ppp-memory-tag)*>

<!ELEMENT ppp-memory-tag (ppp-memory-tag-name | ppp-memory-tag-size |
ppp-memory-tag-active | ppp-memory-tag-free | ppp-memory-tag-maximum-free |
ppp-memory-tag-requests | ppp-memory-tag-failures | ppp-memory-tag-total)*>

<!ELEMENT ppp-memory-tag-active (#PCDATA)>

<!ELEMENT ppp-memory-tag-failures (#PCDATA)>

<!ELEMENT ppp-memory-tag-free (#PCDATA)>

<!ELEMENT ppp-memory-tag-maximum-free (#PCDATA)>

<!ELEMENT ppp-memory-tag-name (#PCDATA)>

<!ELEMENT ppp-memory-tag-requests (#PCDATA)>

<!ELEMENT ppp-memory-tag-size (#PCDATA)>

<!ELEMENT ppp-memory-tag-total (#PCDATA)>

<!ELEMENT ppp-negotiated-options (ipcp-address | ipcp-compression-protocol |
ipcp-primary-dns | ipcp-primary-wins | ipcp-secondary-dns | ipcp-secondary-wins |
ipv6cp-interface-identifier | bcp-mac-support | bcp-tagged-frame |
lcp-address-compression-field-compression | lcp-async-map | lcp-authentication-protocol
| lcp-endpoint-discriminator | lcp-magic-number | lcp-mrru | lcp-mru | lcp-multilink-header
| lcp-protocol-field-compression | lcp-short-sequence)*>

<!ELEMENT ppp-protocol (#PCDATA)>

<!ELEMENT ppp-session (session-name | session-type | session-phase | session-flags |
ppp-last-started | ppp-last-completed | ppp-auth-protocol-information |
ppp-session-protocol-information)*>

<!ELEMENT ppp-session-protocol-information (ppp-state | ppp-last-started |
ppp-last-completed | ppp-protocol | ppp-destination-profile | ppp-negotiated-options)*>
<!ATTLIST ppp-session-protocol-information junos:style CDATA #IMPLIED>

<!ELEMENT ppp-session-statistics (sessions-total | sessions-disabled |
sessions-establish | sessions-authenticate | sessions-network | bundles-pending)*>
```

```
<!ELEMENT ppp-state (#PCDATA)>

<!ELEMENT ppp-statistics-information (ppp-session-statistics | ppp-memory-statistics |
ppp-subscriber-statistics)*>
<!ATTLIST ppp-statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT ppp-subscriber-memory-pool (ppp-subscriber-memory-pool-name |
ppp-subscriber-memory-pool-entry-size | ppp-subscriber-memory-pool-entries |
ppp-subscriber-memory-pool-free | ppp-subscriber-memory-pool-maximum-free |
ppp-subscriber-memory-pool-requests | ppp-subscriber-memory-pool-failures |
ppp-subscriber-memory-pool-total)*>

<!ELEMENT ppp-subscriber-memory-pool-entries (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-entry-size (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-failures (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-free (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-maximum-free (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-name (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-requests (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-pool-total (#PCDATA)>

<!ELEMENT ppp-subscriber-memory-statistics (ppp-subscriber-memory-pool)*>

<!ELEMENT ppp-subscriber-session-statistics (subscriber-sessions-total |
subscriber-sessions-disabled | subscriber-sessions-establish |
subscriber-sessions-authenticate | subscriber-sessions-network)*>

<!ELEMENT ppp-subscriber-statistics (ppp-subscriber-session-statistics |
ppp-subscriber-memory-statistics)*>

<!ELEMENT ppp-subscriber-summary-information (ppp-session)*>

<!ELEMENT ppp-subscriber-summary-noheader-information (ppp-session)*>

<!ELEMENT ppp-summary-information (ppp-session)*>

<!ELEMENT remote-address (#PCDATA)>

<!ELEMENT remote-interface-identifier (#PCDATA)>

<!ELEMENT session-always-up EMPTY>

<!ELEMENT session-bundled EMPTY>

<!ELEMENT session-flags (session-bundled | session-ncp-only | session-always-up |
session-tcc | session-looped | session-monitored)*>

<!ELEMENT session-looped EMPTY>

<!ELEMENT session-monitored EMPTY>
```

```
<!ELEMENT session-name (#PCDATA)>
<!ELEMENT session-ncp-only EMPTY>
<!ELEMENT session-phase (#PCDATA)>
<!ELEMENT session-tcc EMPTY>
<!ELEMENT session-type (#PCDATA)>
<!ELEMENT sessions-authenticate (#PCDATA)>
<!ELEMENT sessions-disabled (#PCDATA)>
<!ELEMENT sessions-establish (#PCDATA)>
<!ELEMENT sessions-network (#PCDATA)>
<!ELEMENT sessions-total (#PCDATA)>
<!ELEMENT subscriber-sessions-authenticate (#PCDATA)>
<!ELEMENT subscriber-sessions-disabled (#PCDATA)>
<!ELEMENT subscriber-sessions-establish (#PCDATA)>
<!ELEMENT subscriber-sessions-network (#PCDATA)>
<!ELEMENT subscriber-sessions-total (#PCDATA)>
```

Chapter 51

DTD for PPP over Ethernet Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-pppoed.dtd, which lists the JUNOS XML tags that contain information about the Point-to-Point Protocol (PPP) over Ethernet. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-pppoed. To review reference pages for the tags, see "Summary of PPP over Ethernet Response Tags" on page 1356.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-pppoed.dtd –>

<!ELEMENT ac-name-config (#PCDATA)>

<!ELEMENT ac-name-session (#PCDATA)>

<!ELEMENT acsystem-err-received (#PCDATA)>

<!ELEMENT acsystem-err-sent (#PCDATA)>

<!ELEMENT active-sessions (#PCDATA)>

<!ELEMENT auto-reconnect (#PCDATA)>

<!ELEMENT dynamic-interface-bandwidth (#PCDATA)>

<!ELEMENT generic-err-received (#PCDATA)>

<!ELEMENT generic-err-sent (#PCDATA)>

<!ELEMENT idle-timeout (#PCDATA)>

<!ELEMENT interface-index (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT malformed-pkt-received (#PCDATA)>

<!ELEMENT max-ac-tmo (#PCDATA)>

<!ELEMENT max-resend-tmo (#PCDATA)>
```

<!ELEMENT max-sessions (#PCDATA)>

<!ELEMENT padi-received (#PCDATA)>

<!ELEMENT padi-resend-tmo (#PCDATA)>

<!ELEMENT padi-sent (#PCDATA)>

<!ELEMENT padi-tmo (#PCDATA)>

<!ELEMENT padm-hurl (#PCDATA)>

<!ELEMENT padm-motm (#PCDATA)>

<!ELEMENT padm-received (#PCDATA)>

<!ELEMENT padm-sent (#PCDATA)>

<!ELEMENT padn-received (#PCDATA)>

<!ELEMENT padn-sent (#PCDATA)>

<!ELEMENT pado-received (#PCDATA)>

<!ELEMENT pado-sent (#PCDATA)>

<!ELEMENT pado-tmo (#PCDATA)>

<!ELEMENT padq-received (#PCDATA)>

<!ELEMENT padq-sent (#PCDATA)>

<!ELEMENT padr-received (#PCDATA)>

<!ELEMENT padr-resend-tmo (#PCDATA)>

<!ELEMENT padr-sent (#PCDATA)>

<!ELEMENT padr-tmo (#PCDATA)>

<!ELEMENT pads-received (#PCDATA)>

<!ELEMENT pads-sent (#PCDATA)>

<!ELEMENT padt-received (#PCDATA)>

<!ELEMENT padt-sent (#PCDATA)>

<!ELEMENT pppoe-counters (padi-sent | padi-received | pado-sent | pado-received | padr-sent | padr-received | pads-sent | pads-received | padt-sent | padt-received | padm-sent | padm-received | padn-sent | padn-received | padq-sent | padq-received | servname-err-sent | servname-err-received | acsystem-err-sent | acsystem-err-received | generic-err-sent | generic-err-received | malformed-pkt-received | unknown-pkt-received | padi-tmo | pado-tmo | padr-tmo)*>

```
<!ELEMENT pppoe-interface (interface-name | interface-index |
underlying-interface-name | underlying-interface-index | state | session-id |
ac-name-config | ac-name-session | service-name | remote-mac | auto-reconnect |
idle-timeout | session-uptime | dynamic-interface-bandwidth | padm-motm |
padm-hurl)*>

<!ELEMENT pppoe-interface-information (pppoe-interface)*>
<!ATTLIST pppoe-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT pppoe-statistics (active-sessions | pppoe-counters)*>

<!ELEMENT pppoe-statistics-information (pppoe-statistics)*>

<!ELEMENT pppoe-version (max-sessions | padi-resend-tmo | padr-resend-tmo |
max-resend-tmo | max-ac-tmo)*>

<!ELEMENT remote-mac (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>

<!ELEMENT servname-err-received (#PCDATA)>

<!ELEMENT servname-err-sent (#PCDATA)>

<!ELEMENT session-id (#PCDATA)>

<!ELEMENT session-uptime (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT underlying-interface-index (#PCDATA)>

<!ELEMENT underlying-interface-name (#PCDATA)>

<!ELEMENT unknown-pkt-received (#PCDATA)>
```

Chapter 52

DTD for Probe-Test Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-probe-tests.dtd, which lists the JUNOS XML tags that contain information from responses to ping, traceroute, and real-time performance monitoring requests. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-probe-tests. To review reference pages for the tags, see "Summary of Probe-Test Response Tags" on page 1362.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-probe-tests.dtd –>

<!ELEMENT date-determined (#PCDATA)>
<!ATTLIST date-determined junos:seconds CDATA #IMPLIED>

<!ELEMENT hop (ttl-value | percent-loss | icmp-extension | probe-result)*>

<!ELEMENT host-name (#PCDATA)>

<!ELEMENT icmp-code (icmp-code-none | icmp-unreach-net | icmp-unreach-host |
icmp-unreach-protocol | icmp-unreach-port | icmp-unreach-needfrag |
icmp-unreach-srcfail | icmp-unreach-net-unknown | icmp-unreach-host-unknown |
icmp-unreach-isolated | icmp-unreach-net-prohib | icmp-unreach-host-prohib |
icmp-unreach-tosnet | icmp-unreach-toshost | icmp-unreach-filter-prohib |
icmp-unreach-host-precedence | icmp-unreach-precedence-cutoff | icmp-redirect-net |
icmp-redirect-host | icmp-redirect-tosnet | icmp-redirect-toshost | icmp-timxceed-intrans |
icmp-timxceed-reass | icmp-paramprob-optabsent | icmp6-unreach-noroute |
icmp6-unreach-admin | icmp6-unreach-beyond-scope | icmp6-unreach-address |
icmp6-unreach-port | icmp6-time-exceed-transit | icmp6-time-exceed-reassembly |
icmp6-parameter-problem-header | icmp6-parameter-problem-nextheader |
icmp6-parameter-problem-option | icmp6-ni-subject-ipv6 | icmp6-ni-subject-fqdn |
icmp6-ni-subject-ipv4 | icmp6-ni-success | icmp6-ni-refused | icmp6-ni-unknown)*>
<!ATTLIST icmp-code integer-code-value CDATA #IMPLIED>

<!ELEMENT icmp-code-none EMPTY>

<!ELEMENT icmp-echo EMPTY>

<!ELEMENT icmp-echoreply EMPTY>

<!ELEMENT icmp-extension (#PCDATA)>

<!ELEMENT icmp-ireq EMPTY>
```

<!ELEMENT icmp-ireqreply EMPTY>

<!ELEMENT icmp-maskreply EMPTY>

<!ELEMENT icmp-maskreq EMPTY>

<!ELEMENT icmp-paramprob EMPTY>

<!ELEMENT icmp-paramprob-optabsent EMPTY>

<!ELEMENT icmp-redirect EMPTY>

<!ELEMENT icmp-redirect-host EMPTY>

<!ELEMENT icmp-redirect-net EMPTY>

<!ELEMENT icmp-redirect-toshost EMPTY>

<!ELEMENT icmp-redirect-tosnet EMPTY>

<!ELEMENT icmp-routeradvert EMPTY>

<!ELEMENT icmp-routersolicit EMPTY>

<!ELEMENT icmp-sourcequench EMPTY>

<!ELEMENT icmp-timxceed EMPTY>

<!ELEMENT icmp-timxceed-intrans EMPTY>

<!ELEMENT icmp-timxceed-reass EMPTY>

<!ELEMENT icmp-tstamp EMPTY>

<!ELEMENT icmp-tstampreply EMPTY>

<!ELEMENT icmp-type (icmp-type-none | icmp-echoreply | icmp-unreach |
icmp-sourcequench | icmp-redirect | icmp-echo | icmp-routeradvert | icmp-routersolicit |
icmp-timxceed | icmp-paramprob | icmp-tstamp | icmp-tstampreply | icmp-ireq |
icmp-ireqreply | icmp-maskreq | icmp-maskreply | icmp6-unreach | icmp6-packet-too-big |
icmp6-time-exceeded | icmp6-parameter-problem | icmp6-echo-request |
icmp6-echo-reply | icmp6-membership-query | icmp6-membership-report |
icmp6-membership-reduction | icmp6-router-solicit | icmp6-router-advert |
icmp6-neighbor-solicit | icmp6-neighbor-advert | icmp6-redirect |
icmp6-router-renumbering | icmp6-ni-query | icmp6-ni-reply)*>
<!ATTLIST icmp-type integer-type-value CDATA #IMPLIED>

<!ELEMENT icmp-type-none EMPTY>

<!ELEMENT icmp-unreach EMPTY>

<!ELEMENT icmp-unreach-filter-prohib EMPTY>

<!ELEMENT icmp-unreach-host EMPTY>

<!ELEMENT icmp-unreach-host-precedence EMPTY>

```
<!ELEMENT icmp-unreach-host-prohib EMPTY>
<!ELEMENT icmp-unreach-host-unknown EMPTY>
<!ELEMENT icmp-unreach-isolated EMPTY>
<!ELEMENT icmp-unreach-needfrag EMPTY>
<!ELEMENT icmp-unreach-net EMPTY>
<!ELEMENT icmp-unreach-net-prohib EMPTY>
<!ELEMENT icmp-unreach-net-unknown EMPTY>
<!ELEMENT icmp-unreach-port EMPTY>
<!ELEMENT icmp-unreach-precedence-cutoff EMPTY>
<!ELEMENT icmp-unreach-protocol EMPTY>
<!ELEMENT icmp-unreach-srcfail EMPTY>
<!ELEMENT icmp-unreach-toshost EMPTY>
<!ELEMENT icmp-unreach-tosnet EMPTY>
<!ELEMENT icmp6-echo-reply EMPTY>
<!ELEMENT icmp6-echo-request EMPTY>
<!ELEMENT icmp6-membership-query EMPTY>
<!ELEMENT icmp6-membership-reduction EMPTY>
<!ELEMENT icmp6-membership-report EMPTY>
<!ELEMENT icmp6-neighbor-advert EMPTY>
<!ELEMENT icmp6-neighbor-solicit EMPTY>
<!ELEMENT icmp6-ni-query EMPTY>
<!ELEMENT icmp6-ni-refused EMPTY>
<!ELEMENT icmp6-ni-reply EMPTY>
<!ELEMENT icmp6-ni-subject-fqdn EMPTY>
<!ELEMENT icmp6-ni-subject-ipv4 EMPTY>
<!ELEMENT icmp6-ni-subject-ipv6 EMPTY>
<!ELEMENT icmp6-ni-success EMPTY>
<!ELEMENT icmp6-ni-unknown EMPTY>
<!ELEMENT icmp6-packet-too-big EMPTY>
```

<!ELEMENT icmp6-parameter-problem EMPTY>

<!ELEMENT icmp6-parameter-problem-header EMPTY>

<!ELEMENT icmp6-parameter-problem-nextheader EMPTY>

<!ELEMENT icmp6-parameter-problem-option EMPTY>

<!ELEMENT icmp6-redirect EMPTY>

<!ELEMENT icmp6-router-advert EMPTY>

<!ELEMENT icmp6-router-renumbering EMPTY>

<!ELEMENT icmp6-router-solicit EMPTY>

<!ELEMENT icmp6-time-exceed-reassembly EMPTY>

<!ELEMENT icmp6-time-exceed-transit EMPTY>

<!ELEMENT icmp6-time-exceeded EMPTY>

<!ELEMENT icmp6-unreach EMPTY>

<!ELEMENT icmp6-unreach-address EMPTY>

<!ELEMENT icmp6-unreach-admin EMPTY>

<!ELEMENT icmp6-unreach-beyond-scope EMPTY>

<!ELEMENT icmp6-unreach-noroute EMPTY>

<!ELEMENT icmp6-unreach-port EMPTY>

<!ELEMENT ingress-interface (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT ip-options (record-route | loose-source-route | strict-source-route)*>

<!ELEMENT loose-source-route (record-route-host)*>

<!ELEMENT lsping-error-packets (#PCDATA)>

<!ELEMENT lsping-failure (#PCDATA)>

<!ELEMENT lsping-interface-index (#PCDATA)>

<!ELEMENT lsping-ip-address (#PCDATA)>

<!ELEMENT lsping-label (#PCDATA)>

<!ELEMENT lsping-local-transmit-time (#PCDATA)>

<!ELEMENT lsping-local-transmit-time-us (#PCDATA)>

```
<!ELEMENT lsping-mtu (#PCDATA)>

<!ELEMENT lsping-packet-loss (#PCDATA)>

<!ELEMENT lsping-packet-size (#PCDATA)>

<!ELEMENT lsping-packets-received (#PCDATA)>

<!ELEMENT lsping-packets-transmitted (#PCDATA)>

<!ELEMENT lsping-probe-reply (lsping-sequence-number | lsping-return-code |
lsping-ip-address | lsping-round-trip-time | lsping-local-transmit-time |
lsping-local-transmit-time-us | lsping-remote-receive-time |
lsping-remote-receive-time-us)*>

<!ELEMENT lsping-probe-request (lsping-sequence-number | lsping-interface-index |
lsping-label | lsping-packet-size)*>

<!ELEMENT lsping-remote-receive-time (#PCDATA)>

<!ELEMENT lsping-remote-receive-time-us (#PCDATA)>

<!ELEMENT lsping-results (lsping-route-comment | lsping-probe-request |
lsping-probe-reply | lsping-results-summary | vpls-ping-results-summary |
lsping-sweep-summary | lsping-success | lsping-failure)*>

<!ELEMENT lsping-results-summary (lsping-packets-transmitted |
lsping-packets-received | lsping-packet-loss | lsping-error-packets)*>

<!ELEMENT lsping-return-code (#PCDATA)>

<!ELEMENT lsping-round-trip-time (#PCDATA)>

<!ELEMENT lsping-route-comment (#PCDATA)>

<!ELEMENT lsping-sequence-number (#PCDATA)>

<!ELEMENT lsping-success EMPTY>

<!ELEMENT lsping-sweep-summary (lsping-mtu)*>

<!ELEMENT max-hop-index (#PCDATA)>

<!ELEMENT packet-loss (#PCDATA)>

<!ELEMENT packet-size (#PCDATA)>

<!ELEMENT percent-loss (#PCDATA)>

<!ELEMENT ping-failure (#PCDATA)>

<!ELEMENT ping-results (target-host | source | target-ip | packet-size | probe-result |
probe-results-summary | ping-success | ping-failure)*>

<!ELEMENT ping-success EMPTY>

<!ELEMENT probe-duplicate EMPTY>
```

```
<!ELEMENT probe-failure (#PCDATA)>

<!ELEMENT probe-index (#PCDATA)>

<!ELEMENT probe-reached EMPTY>

<!ELEMENT probe-result (date-determined | probe-index | sequence-number |
time-to-live | response-size | rtt | ingress-interface | icmp-type | icmp-code | ip-address |
host-name | ip-options | probe-success | probe-duplicate | probe-reached |
probe-failure)*>

<!ELEMENT probe-results-summary (probes-sent | responses-received | packet-loss |
response-duplicates | response-unexpected-sequence | rtt-minimum | rtt-average |
rtt-maximum | rtt-stddev)*>

<!ELEMENT probe-success EMPTY>

<!ELEMENT probes-sent (#PCDATA)>

<!ELEMENT record-route (record-route-host)*>

<!ELEMENT record-route-host (ip-address | host-name)*>

<!ELEMENT response-duplicates (#PCDATA)>

<!ELEMENT response-size (#PCDATA)>

<!ELEMENT response-unexpected-sequence (#PCDATA)>

<!ELEMENT responses-received (#PCDATA)>

<!ELEMENT rtt (#PCDATA)>

<!ELEMENT rtt-average (#PCDATA)>

<!ELEMENT rtt-maximum (#PCDATA)>

<!ELEMENT rtt-minimum (#PCDATA)>

<!ELEMENT rtt-stddev (#PCDATA)>

<!ELEMENT sequence-number (#PCDATA)>

<!ELEMENT source (#PCDATA)>

<!ELEMENT strict-source-route (record-route-host)*>

<!ELEMENT target-host (#PCDATA)>

<!ELEMENT target-ip (#PCDATA)>

<!ELEMENT time-to-live (#PCDATA)>

<!ELEMENT traceroute-failure (#PCDATA)>
```

```
<!ELEMENT traceroute-results (target-host | source | target-ip | packet-size |
max-hop-index | hop | traceroute-success | traceroute-failure)*>

<!ELEMENT traceroute-success EMPTY>

<!ELEMENT ttl-value (#PCDATA)>

<!ELEMENT vpls-ping-results-summary (lsping-packets-transmitted |
lsping-packets-received | lsping-packet-loss | lsping-error-packets)*>
```

Chapter 53

DTD for Product Metadata Response Tag Elements

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-productmetadata.dtd, which lists the JUNOS XML tag elements that contain product metadata. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-productmetadata. To review reference pages for the tag elements, see "Summary of Product Metadata Response Tags" on page 1377.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-productmetadata.dtd –>

<!ELEMENT defaults (#PCDATA)>

<!ELEMENT description (#PCDATA)>

<!ELEMENT factory (#PCDATA)>

<!ELEMENT flag (#PCDATA)>

<!ELEMENT max-chassis (#PCDATA)>

<!ELEMENT max-fpc-per-chassis (#PCDATA)>

<!ELEMENT max-fpc-per-router (#PCDATA)>

<!ELEMENT max-fwd-classes (#PCDATA)>

<!ELEMENT max-pem-per-chassis (#PCDATA)>

<!ELEMENT max-pfe-per-slot (#PCDATA)>

<!ELEMENT max-pics-per-slot (#PCDATA)>

<!ELEMENT max-re (#PCDATA)>

<!ELEMENT max-sfm (#PCDATA)>

<!ELEMENT max-sib-per-chassis (#PCDATA)>

<!ELEMENT max-spmb-per-chassis (#PCDATA)>
```

```
<!ELEMENT model (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT product (model | product-number | series | product-line | name | description
| flag | max-fpc-per-router | max-fpc-per-chassis | max-pics-per-slot | max-sfm |
max-pfe-per-slot | max-re | max-chassis | max-spmb-per-chassis | max-sib-per-chassis |
max-pem-per-chassis | max-fwd-classes | defaults | factory)*>

<!ELEMENT product-line (#PCDATA)>

<!ELEMENT product-metadata-information (product)*>

<!ELEMENT product-number (#PCDATA)>

<!ELEMENT series (#PCDATA)>
```

Chapter 54

DTD for Redundant Interfaces Response Tags

This chapter contains the XML Extensible Markup Language (XML) document type definition (DTD) called junos-rdd.dtd, which lists the JUNOS XML tags that contain information about redundant services interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-rdd. To review reference pages for the tags, see "Summary of Redundant Interfaces Response Tags" on page 1380.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-rdd.dtd –>

<!ELEMENT current-status (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-redundancy (interface-name | state | last-change | primary |
secondary | current-status)*>

<!ELEMENT interface-redundancy-detail (interface-name | state | last-change | primary |
secondary | current-status | mode)*>

<!ELEMENT interface-redundancy-detail-information (interface-redundancy-detail)*>

<!ELEMENT interface-redundancy-information (interface-redundancy)*>

<!ELEMENT last-change (#PCDATA)>

<!ELEMENT mode (#PCDATA)>

<!ELEMENT primary (#PCDATA)>

<!ELEMENT secondary (#PCDATA)>

<!ELEMENT state (#PCDATA)>
```

Chapter 55

DTD for Resource Cleanup Response Tags

This chapter contains the XML Extensible Markup Language (XML) document type definition (DTD) called junos-res-cleanup.dtd, which lists the JUNOS XML tags that contain information about redundant services interfaces. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-res-cleanup. To review reference pages for the tags, see "Summary of Resource Cleanup Response Tags" on page 1382.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-res-cleanup.dtd –>

<!ELEMENT cleanup-resources (resource)*>

<!ELEMENT id (#PCDATA)>

<!ELEMENT key (#PCDATA)>

<!ELEMENT major-number (#PCDATA)>

<!ELEMENT minor-number (#PCDATA)>

<!ELEMENT pid (#PCDATA)>

<!ELEMENT process-name (#PCDATA)>

<!ELEMENT process-resource-cleanup (pid | process-name | cleanup-resources)*>

<!ELEMENT resource (type | major-number | minor-number | id | key)*>

<!ELEMENT resource-type (type)*>

<!ELEMENT system-resource-cleanup-processes-information
(process-resource-cleanup)*>
<!ATTLIST system-resource-cleanup-processes-information junos:style CDATA
#IMPLIED>

<!ELEMENT system-resource-cleanup-resources-information (resource-type)*>

<!ELEMENT type (#PCDATA)>
```

Chapter 56

DTD for Routing Protocols Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-routing.dtd, which lists the JUNOS XML tags that contain information about routing protocols. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-routing. To review reference pages for the tags, see "Summary of Routing Protocols Response Tags" on page 1392.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-routing.dtd –>

<!ELEMENT accepted-external-prefix-count (#PCDATA)>

<!ELEMENT accepted-internal-prefix-count (#PCDATA)>

<!ELEMENT accepted-prefix-count (#PCDATA)>

<!ELEMENT accepted-prefix-limit (nlri-type | prefix-count | limit-action |
warning-percentage)*>

<!ELEMENT ack-flag (#PCDATA)>

<!ELEMENT active-control-channel (#PCDATA)>

<!ELEMENT active-count (#PCDATA)>

<!ELEMENT active-external-prefix-count (#PCDATA)>

<!ELEMENT active-holdtime (#PCDATA)>

<!ELEMENT active-internal-prefix-count (#PCDATA)>

<!ELEMENT active-key-id (#PCDATA)>

<!ELEMENT active-key-start-time (#PCDATA)>

<!ELEMENT active-path (#PCDATA)>

<!ELEMENT active-prefix-count (#PCDATA)>

<!ELEMENT active-reservation (#PCDATA)>
```

```
<!ELEMENT active-route-count (#PCDATA)>

<!ELEMENT active-tag (#PCDATA)>

<!ELEMENT activity-timer (#PCDATA)>

<!ELEMENT actual-bandwidth (#PCDATA)>

<!ELEMENT actual-free-bytes (#PCDATA)>

<!ELEMENT add-messages (#PCDATA)>

<!ELEMENT address (#PCDATA)>

<!ELEMENT address-families (#PCDATA)>

<!ELEMENT address-family (#PCDATA)>

<!ELEMENT address-mask (#PCDATA)>

<!ELEMENT address-prefix (#PCDATA)>

<!ELEMENT adj-count (#PCDATA)>

<!ELEMENT adjacency-advertisement (#PCDATA)>

<!ELEMENT adjacency-count (#PCDATA)>

<!ELEMENT adjacency-down-reason (#PCDATA)>

<!ELEMENT adjacency-event (#PCDATA)>

<!ELEMENT adjacency-flag (#PCDATA)>

<!ELEMENT adjacency-restart-capable (#PCDATA)>

<!ELEMENT adjacency-state (#PCDATA)>

<!ELEMENT adjacency-topologies (#PCDATA)>

<!ELEMENT adjacency-when (#PCDATA)>
<!ATTLIST adjacency-when junos:seconds CDATA #IMPLIED>

<!ELEMENT adjust-threshold (#PCDATA)>

<!ELEMENT adjust-timer (#PCDATA)>

<!ELEMENT admin-group-name (#PCDATA)>

<!ELEMENT admin-group-number (#PCDATA)>

<!ELEMENT admin-groups (color | no-group-flag | admin-group-name |
admin-group-number)*>
<!ATTLIST admin-groups heading CDATA #IMPLIED>

<!ELEMENT adspec (#PCDATA)>
```

```
<!ELEMENT advertised-prefix-count (#PCDATA)>

<!ELEMENT advertising-router (#PCDATA)>

<!ELEMENT age (#PCDATA)>
<!ATTLIST age junos:seconds CDATA #IMPLIED>

<!ELEMENT aggregate (aggregate-flags | aggregate-depth | aggregate-active |
aggregate-as-path | contributing-route-count | aggregated-route)*>

<!ELEMENT aggregate-active EMPTY>

<!ELEMENT aggregate-as-path (as-path | reference-count)*>

<!ELEMENT aggregate-depth (#PCDATA)>

<!ELEMENT aggregate-flag (#PCDATA)>

<!ELEMENT aggregate-flags (#PCDATA)>

<!ELEMENT aggregated-route (destination-prefix | protocol-name)*>

<!ELEMENT aging-timer (#PCDATA)>

<!ELEMENT allocated-length (#PCDATA)>

<!ELEMENT announce-bits (#PCDATA)>

<!ELEMENT announce-tasks (#PCDATA)>

<!ELEMENT application-owner (#PCDATA)>

<!ELEMENT area-address-tlv (address | tlv-length)*>

<!ELEMENT area-mismatch-error (#PCDATA)>

<!ELEMENT as-loops (#PCDATA)>

<!ELEMENT as-number (#PCDATA)>

<!ELEMENT as-path (#PCDATA)>

<!ELEMENT asn (#PCDATA)>

<!ELEMENT aspath-bucket (aspath-entry | bucket | count)*>

<!ELEMENT aspath-domain (identifier | domain-flags | primary | references | path-count |
local-asn)*>

<!ELEMENT aspath-entry (as-path | domain | path-references | length | segments |
overhead | compare-length | neighbor-as | entry-state)*>
<!ATTLIST aspath-entry junos:style CDATA #IMPLIED>

<!ELEMENT aspath-table (path-count | bucket-count | bucket-max-entries |
bucket-min-entries | bucket-avg-entries | bucket-std-deviation | aspath-bucket)*>
<!ATTLIST aspath-table junos:style CDATA #IMPLIED>
```

<!ELEMENT assert-state (#PCDATA)>

<!ELEMENT assert-timeout (#PCDATA)>

<!ELEMENT atm-cell-bundle-size (#PCDATA)>

<!ELEMENT atm-vp-bundle-size (#PCDATA)>

<!ELEMENT attached-router (#PCDATA)>

<!ELEMENT attrset (attrset-as | med | local-preference | as-path | communities | cluster-id | pmsi | originator)*>

<!ELEMENT attrset-as (#PCDATA)>

<!ELEMENT authentication-algorithm (#PCDATA)>

<!ELEMENT authentication-configured EMPTY>

<!ELEMENT authentication-failure-error (#PCDATA)>

<!ELEMENT authentication-flag (#PCDATA)>

<!ELEMENT authentication-key (#PCDATA)>

<!ELEMENT authentication-key-chain (#PCDATA)>

<!ELEMENT authentication-mismatch-error (#PCDATA)>

<!ELEMENT authentication-tlv (tlv-length)*>

<!ELEMENT authentication-type (#PCDATA)>

<!ELEMENT auto-site-count (#PCDATA)>

<!ELEMENT auto-site-repository-state (#PCDATA)>

<!ELEMENT automatic-site-claim-id (#PCDATA)>

<!ELEMENT automatic-site-collision-detect-time (#PCDATA)>

<!ELEMENT automatic-site-collisions (#PCDATA)>

<!ELEMENT automatic-site-id-status (#PCDATA)>

<!ELEMENT automatic-site-name (#PCDATA)>

<!ELEMENT automatic-site-new-site-wait-time (#PCDATA)>

<!ELEMENT automatic-site-reclaim-wait-time (#PCDATA)>

<!ELEMENT automatic-site-startup-wait-time (#PCDATA)>

<!ELEMENT automatic-site-timer-status (#PCDATA)>

```
<!ELEMENT automatic-site-timers (automatic-site-startup-wait-time |
automatic-site-new-site-wait-time | automatic-site-collision-detect-time |
automatic-site-reclaim-wait-time)*>
<!ATTLIST automatic-site-timers heading CDATA #IMPLIED>

<!ELEMENT available-bandwidth (#PCDATA)>

<!ELEMENT average-per-run (#PCDATA)>

<!ELEMENT average-time (#PCDATA)>

<!ELEMENT backup-next-hop-element (interface-name | isis-next-hop-type | isis-next-hop
| snpa)*>

<!ELEMENT backup-pe-group-name (#PCDATA)>

<!ELEMENT backup-pes (multicast-backup-pe-address)*>

<!ELEMENT backup-root (#PCDATA)>

<!ELEMENT backup-root-metric (#PCDATA)>

<!ELEMENT bad-packettype-error (#PCDATA)>

<!ELEMENT bad-version-error (#PCDATA)>

<!ELEMENT balance (#PCDATA)>

<!ELEMENT bandwidth (#PCDATA)>

<!ELEMENT bandwidth-for-admission-control (#PCDATA)>

<!ELEMENT bandwidth-model (#PCDATA)>

<!ELEMENT bandwidth-priority (#PCDATA)>

<!ELEMENT bandwidth-type (#PCDATA)>

<!ELEMENT bandwidth_ct0 (#PCDATA)>

<!ELEMENT bandwidth_ct1 (#PCDATA)>

<!ELEMENT bandwidth_ct2 (#PCDATA)>

<!ELEMENT bandwidth_ct3 (#PCDATA)>

<!ELEMENT bc (#PCDATA)>

<!ELEMENT bc-description (#PCDATA)>

<!ELEMENT bdr-address (#PCDATA)>

<!ELEMENT bdr-id (#PCDATA)>

<!ELEMENT bfd-configuration-state (#PCDATA)>

<!ELEMENT bfd-operational-state (#PCDATA)>
```

```
<!ELEMENT bgp-bfd (bfd-configuration-state | bfd-operational-state)*>

<!ELEMENT bgp-bmp-information (bmp-addr-port | bmp-state | bmp-memory-consumed |
bmp-statistics-timeout | bmp-memory-limit | bmp-memory-delay)*>

<!ELEMENT bgp-error (name | send-count | receive-count)*>

<!ELEMENT bgp-group (type | peer-as | local-as | group-index | group-state | name |
bgp-options | bgp-options2 | group-flags | peer-count | established-count | peer-address
| flap-count | unconfigured-peers | igp-protocol | route-queue | bgp-peer |
bgp-option-information | tracing-information | bgp-rib)*>
<!ATTLIST bgp-group heading CDATA #IMPLIED>
<!ATTLIST bgp-group junos:style CDATA #IMPLIED>

<!ELEMENT bgp-group-information (bgp-group | bgp-information)*>

<!ELEMENT bgp-group-name (#PCDATA)>

<!ELEMENT bgp-information (group-count | peer-count | external-peer-count |
internal-peer-count | down-peer-count | unconfigured-peer-count | half-open-peer-count |
igp-converging | flap-count | bgp-rib | bgp-peer)*>

<!ELEMENT bgp-metric-flags (#PCDATA)>

<!ELEMENT bgp-nlri-flag-aggregate-label EMPTY>

<!ELEMENT bgp-nlri-flag-explicit-null-for-all-routes EMPTY>

<!ELEMENT bgp-nlri-flag-explicit-null-for-connected-routes EMPTY>

<!ELEMENT bgp-nlri-flag-l2vpn-status-vector EMPTY>

<!ELEMENT bgp-nlri-flag-no-l2vpn-status-vector EMPTY>

<!ELEMENT bgp-nlri-flag-per-group-label EMPTY>

<!ELEMENT bgp-nlri-flag-per-prefix-label EMPTY>

<!ELEMENT bgp-nlri-flag-traffic-stats EMPTY>

<!ELEMENT bgp-no-label-reason (#PCDATA)>

<!ELEMENT bgp-option-information (export-policy | import-policy | bgp-options |
bgp-options2 | authentication-key | authentication-key-chain | authentication-algorithm |
authentication-configured | address-families | local-address | holdtime | metric-out |
preference | local-preference | prefix-limit | accepted-prefix-limit | nlri-information |
local-as | local-as-private | local-system-as | receive-buffer-size | send-buffer-size |
outbound-timer | med-action | ipsec-sa)*>

<!ELEMENT bgp-options (#PCDATA)>

<!ELEMENT bgp-options2 (#PCDATA)>

<!ELEMENT bgp-orf (peer-address | peer-type | group-name | bgp-orf-nlri-info)*>

<!ELEMENT bgp-orf-extcomm-filter (extended-community)*>
```

```
<!ELEMENT bgp-orf-filter-info (bgp-orf-extcomm-filter | bgp-orf-prefix-filter)*>

<!ELEMENT bgp-orf-filter-information (filter-type | filter-mode | filter-in-updates |
filter-out-updates | filter-qcount | bgp-orf-filter-info)*>

<!ELEMENT bgp-orf-information (bgp-orf)*>

<!ELEMENT bgp-orf-nlri-info (nlri-name | filter-in-updates | filter-out-updates | filter-qcount
| immediate-count | bgp-orf-filter-information)*>

<!ELEMENT bgp-orf-prefix-filter (prefix-orf)*>

<!ELEMENT bgp-output-queue (number | count)*>

<!ELEMENT bgp-peer (peer-address | peer-as | local-address | local-as | description |
peer-type | route-reflector-client | peer-state | peer-flags | last-state | last-event |
last-error | bgp-option-information | flap-count | last-flap-event | peer-id | local-id |
active-holdtime | keepalive-interval | peer-index | bgp-bfd | local-interface-name |
local-interface-index | nlri-type-peer | nlri-type-session | peer-no-refresh |
peer-refresh-capability | peer-4byte-as-capability-not-supported |
peer-4byte-as-capability-advertised | peer-restart-nlri-configured |
peer-restart-time-configured | peer-stale-route-time-configured |
peer-restart-time-received | peer-restart-flags-received | peer-restart-nlri-received |
peer-restart-nlri-can-save-state | peer-restart-nlri-state-saved | peer-no-restart |
peer-restart-nlri-negotiated | peer-end-of-rib-received | peer-end-of-rib-sent |
peer-end-of-rib-scheduled | last-received | last-sent | last-checked | input-messages |
input-updates | input-refreshes | input-octets | output-messages | output-updates |
output-refreshes | output-octets | buffered-octets-rx | buffered-octets-tx |
bgp-output-queue | route-queue-count | bgp-rib | elapsed-time | extended-information |
bgp-error | route-queue | tracing-information)*>
<!ATTLIST bgp-peer heading CDATA #IMPLIED>
<!ATTLIST bgp-peer junos:style CDATA #IMPLIED>

<!ELEMENT bgp-prefix (#PCDATA)>

<!ELEMENT bgp-rib (name | rib-bit | bgp-rib-state | vpn-rib-state | send-state |
total-external-prefix-count | active-external-prefix-count | accepted-external-prefix-count |
suppressed-external-prefix-count | total-internal-prefix-count | active-internal-prefix-count
| accepted-internal-prefix-count | suppressed-internal-prefix-count | total-prefix-count |
active-prefix-count | received-prefix-count | accepted-prefix-count | damped-prefix-count |
suppressed-prefix-count | history-prefix-count | pending-prefix-count |
advertised-prefix-count)*>
<!ATTLIST bgp-rib junos:style CDATA #IMPLIED>

<!ELEMENT bgp-rib-state (#PCDATA)>

<!ELEMENT bgp-rsync-ack-queue (bgp-rsync-queue-entry)*>

<!ELEMENT bgp-rsync-ackwait (#PCDATA)>

<!ELEMENT bgp-rsync-error-queue (bgp-rsync-queue-entry)*>

<!ELEMENT bgp-rsync-estab-queue (bgp-rsync-queue-entry)*>

<!ELEMENT bgp-rsync-estab-tm (#PCDATA)>
<!ATTLIST bgp-rsync-estab-tm junos:seconds CDATA #IMPLIED>
```

<!ELEMENT bgp-rsync-estab-type (bgp-rsync-queue-entry)*>

<!ELEMENT bgp-rsync-flags (#PCDATA)>

<!ELEMENT bgp-rsync-master (bgp-rsync-session-state | bgp-rsync-session-time | bgp-rsync-session-flaps | bgp-rsync-session-last-flap-reason | bgp-rsync-session-last-flap-error | bgp-rsync-state | bgp-rsync-state-time | bgp-rsync-flags | bgp-rsync-rt-state | bgp-rsync-ackwait | bgp-rsync-sowait | bgp-rsync-sched | bgp-rsync-sendbuf-count | bgp-rsync-walker | bgp-rsync-walk | bgp-rsync-estab-type | bgp-rsync-ack-queue | bgp-rsync-estab-tm | bgp-rsync-error-queue | bgp-rsync-stats | bgp-rsync-estab-queue)*>

<!ELEMENT bgp-rsync-queue-entry (rsy-queue-instance | rsy-queue-addr | rsy-queue-more)*>

<!ELEMENT bgp-rsync-rt-state (#PCDATA)>

<!ELEMENT bgp-rsync-sched (#PCDATA)>

<!ELEMENT bgp-rsync-sendbuf-count (#PCDATA)>

<!ELEMENT bgp-rsync-session-flaps (#PCDATA)>

<!ELEMENT bgp-rsync-session-last-flap-error (#PCDATA)>

<!ELEMENT bgp-rsync-session-last-flap-reason (#PCDATA)>

<!ELEMENT bgp-rsync-session-state (#PCDATA)>

<!ELEMENT bgp-rsync-session-time (#PCDATA)>

<!ELEMENT bgp-rsync-sowait (#PCDATA)>

<!ELEMENT bgp-rsync-state (#PCDATA)>

<!ELEMENT bgp-rsync-state-time (#PCDATA)>

<!ELEMENT bgp-rsync-stats (open-send-count | estab-send-count | update-send-count | error-send-count | complete-send-count | open-receive-count | request-wild-receive-count | request-tgt-receive-count | estab-ack-receive-count | complete-ack-receive-count)*>

<!ELEMENT bgp-rsync-walk (bgp-rsync-walk-table | bgp-rsync-walk-prefix | bgp-rsync-walk-prefixlen | queue-count)*>

<!ELEMENT bgp-rsync-walk-prefix (#PCDATA)>

<!ELEMENT bgp-rsync-walk-prefixlen (#PCDATA)>

<!ELEMENT bgp-rsync-walk-table (#PCDATA)>

<!ELEMENT bgp-rsync-walker EMPTY>

<!ELEMENT bgp-rt-flag (#PCDATA)>

<!ELEMENT bgp-rtf-brief (group-name | table-name | bgp-rtf-state-flags | bgp-rtf-entries)*>

```
<!ELEMENT bgp-rtf-entries (#PCDATA)>

<!ELEMENT bgp-rtf-entry (rtarget | rtarget-mask)*>

<!ELEMENT bgp-rtf-group (group-name | rtarget-recv-mask | default-mask |
bgp-rtf-state)*>

<!ELEMENT bgp-rtf-information (bgp-rtf-brief | bgp-rtf-group)*>

<!ELEMENT bgp-rtf-state (table-name | bgp-rtf-state-flags | bgp-rtf-entries |
bgp-rtf-entry)*>

<!ELEMENT bgp-rtf-state-flags (#PCDATA)>

<!ELEMENT bgp-standby (bgp-standby-state | bgp-standby-last-trans |
bgp-standby-sendbuf | bgp-unsync-timer | bgp-unsync-pending-tm | bgp-unsync-queue |
bgp-unsync-pending | bgp-standby-sync-queue)*>

<!ELEMENT bgp-standby-last-trans (#PCDATA)>
<!ATTLIST bgp-standby-last-trans junos:seconds CDATA #IMPLIED>

<!ELEMENT bgp-standby-sendbuf (#PCDATA)>

<!ELEMENT bgp-standby-state (#PCDATA)>

<!ELEMENT bgp-standby-sync-entry (bstandby-iid | bstandby-addr)*>

<!ELEMENT bgp-standby-sync-queue (bgp-standby-sync-entry)*>

<!ELEMENT bgp-sync-information (bgp-rsync-master | bgp-standby)*>

<!ELEMENT bgp-traffic-error (#PCDATA)>

<!ELEMENT bgp-traffic-statistics (bgp-prefix | bgp-traffic-type | bgp-traffic-error |
bgp-traffic-statistics-packet-count | bgp-traffic-statistics-byte-count |
bgp-traffic-statistics-egress-as | bgp-traffic-statistics-advertised-fec-label)*>

<!ELEMENT bgp-traffic-statistics-advertised-fec-label (#PCDATA)>

<!ELEMENT bgp-traffic-statistics-byte-count (#PCDATA)>

<!ELEMENT bgp-traffic-statistics-egress-as (#PCDATA)>

<!ELEMENT bgp-traffic-statistics-error (bgp-traffic-error)*>

<!ELEMENT bgp-traffic-statistics-header (group-name | group-index | nlri-name)*>

<!ELEMENT bgp-traffic-statistics-information (bgp-traffic-statistics-header |
bgp-traffic-statistics | bgp-traffic-statistics-error)*>

<!ELEMENT bgp-traffic-statistics-packet-count (#PCDATA)>

<!ELEMENT bgp-traffic-type (#PCDATA)>

<!ELEMENT bgp-unsync-entry (usy-iid | usy-addr | usy-elapsed | usy-flags | usy-more)*>
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```
<!ELEMENT bgp-unsync-pending (bgp-unsync-entry)*>

<!ELEMENT bgp-unsync-pending-tm (#PCDATA)>
<!ATTLIST bgp-unsync-pending-tm junos:seconds CDATA #IMPLIED>

<!ELEMENT bgp-unsync-queue (bgp-unsync-entry)*>

<!ELEMENT bgp-unsync-timer (#PCDATA)>
<!ATTLIST bgp-unsync-timer junos:seconds CDATA #IMPLIED>

<!ELEMENT bidirectional EMPTY>

<!ELEMENT bits (#PCDATA)>

<!ELEMENT bmp-addr-port (#PCDATA)>

<!ELEMENT bmp-memory-consumed (#PCDATA)>

<!ELEMENT bmp-memory-delay (#PCDATA)>

<!ELEMENT bmp-memory-limit (#PCDATA)>

<!ELEMENT bmp-state (#PCDATA)>

<!ELEMENT bmp-statistics-timeout (#PCDATA)>

<!ELEMENT bootstrap-family (address-family | address | bootstrap-priority |
local-address | local-priority | bootstrap-state | bootstrap-timeout)*>

<!ELEMENT bootstrap-priority (#PCDATA)>

<!ELEMENT bootstrap-state (#PCDATA)>

<!ELEMENT bootstrap-timeout (#PCDATA)>

<!ELEMENT branch-lsp-count (#PCDATA)>

<!ELEMENT broadcast-bytes (#PCDATA)>

<!ELEMENT broadcast-packets (#PCDATA)>

<!ELEMENT bstandby-addr (#PCDATA)>

<!ELEMENT bstandby-iid (#PCDATA)>

<!ELEMENT bucket (#PCDATA)>

<!ELEMENT bucket-avg-entries (#PCDATA)>

<!ELEMENT bucket-count (#PCDATA)>

<!ELEMENT bucket-max-entries (#PCDATA)>

<!ELEMENT bucket-min-entries (#PCDATA)>

<!ELEMENT bucket-std-deviation (#PCDATA)>
```

<!ELEMENT buffered-octets-rx (#PCDATA)>

<!ELEMENT buffered-octets-tx (#PCDATA)>

<!ELEMENT bw-exact (#PCDATA)>

<!ELEMENT bypass-info (lp-status | lp-requested | lp-granted | lp-failure | total-bypass | bypass-name | bypass-state | bypass-type | rsvp-lp-psb-cnt | rsvp-lp-backup-lsp-cnt | lp-history)*>

<!ELEMENT bypass-name (#PCDATA)>

<!ELEMENT bypass-state (#PCDATA)>

<!ELEMENT bypass-type (#PCDATA)>

<!ELEMENT bytes-left (#PCDATA)>

<!ELEMENT c-multicast-address (#PCDATA)>

<!ELEMENT c-multicast-ipv4 (c-multicast-ipv4-entry)*>

<!ELEMENT c-multicast-ipv4-count (#PCDATA)>

<!ELEMENT c-multicast-ipv4-entry (c-multicast-address | provider-tunnel-id | c-multicast-property)*>

<!ELEMENT c-multicast-ipv6 (c-multicast-ipv6-entry)*>

<!ELEMENT c-multicast-ipv6-entry (c-multicast-address | provider-tunnel-id | c-multicast-property)*>

<!ELEMENT c-multicast-property (#PCDATA)>

<!ELEMENT c-multicast-summary (c-multicast-ipv4-count)*>

<!ELEMENT cac-bandwidth-failure EMPTY>

<!ELEMENT cache-timeout (#PCDATA)>

<!ELEMENT cc-restarting EMPTY>

<!ELEMENT ccc-circuit-name (#PCDATA)>

<!ELEMENT ccc-circuit-status (#PCDATA)>

<!ELEMENT ccc-circuit-type (#PCDATA)>

<!ELEMENT ccc-connection (ccc-connection-name | ccc-connection-type | ccc-connection-status | ccc-connection-last-uptime | ccc-connection-up-transitions | ccc-connection-circuit | ccc-connection-in-labels | ccc-connection-out-labels | ccc-connection-history)*>

<!ELEMENT ccc-connection-circuit (ccc-circuit-name | ccc-circuit-type | ccc-circuit-status)*>

<!ELEMENT ccc-connection-history (ccc-connection-history-log)*>

<!ELEMENT ccc-connection-history-log (event-time | event-name | interface-label-info | receive-lsp-count | transmit-lsp-count)*>

<!ELEMENT ccc-connection-in-labels (mpls-label | no-label)*>
<!ATTLIST ccc-connection-in-labels heading CDATA #IMPLIED>

<!ELEMENT ccc-connection-last-uptime (#PCDATA)>

<!ELEMENT ccc-connection-name (#PCDATA)>

<!ELEMENT ccc-connection-out-labels (mpls-label | no-label)*>
<!ATTLIST ccc-connection-out-labels heading CDATA #IMPLIED>

<!ELEMENT ccc-connection-status (#PCDATA)>

<!ELEMENT ccc-connection-type (#PCDATA)>

<!ELEMENT ccc-connection-up-transitions (#PCDATA)>

<!ELEMENT ccc-information (ccc-no-connections | ccc-link-monitoring-status | ccc-restarting | ccc-connection)*>

<!ELEMENT ccc-link-monitoring-status (#PCDATA)>

<!ELEMENT ccc-no-connections EMPTY>

<!ELEMENT ccc-restarting EMPTY>

<!ELEMENT cell-bundle-size (#PCDATA)>

<!ELEMENT change-messages (#PCDATA)>

<!ELEMENT changed-entity (#PCDATA)>

<!ELEMENT checksum (#PCDATA)>

<!ELEMENT checksum-error (#PCDATA)>

<!ELEMENT circuit-id (#PCDATA)>

<!ELEMENT circuit-type (#PCDATA)>

<!ELEMENT class-bandwidth (#PCDATA)>

<!ELEMENT class-type (#PCDATA)>

<!ELEMENT cluster-id (#PCDATA)>

<!ELEMENT color (#PCDATA)>

<!ELEMENT color2 (#PCDATA)>

<!ELEMENT communities (community | extended-community)*>

<!ELEMENT community (#PCDATA)>

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<!ELEMENT compare-length (#PCDATA)>

<!ELEMENT complete-ack-receive-count (#PCDATA)>

<!ELEMENT complete-send-count (#PCDATA)>

<!ELEMENT composite-nh (#PCDATA)>

<!ELEMENT composite-nh-count (#PCDATA)>

<!ELEMENT configuration-state (#PCDATA)>

<!ELEMENT connection (connection-id | connection-type | connection-status |
last-change | up-transitions | local-interface | remote-interface | remote-pe | control-word
| control-word-type | interface-encapsulation | inbound-label | outbound-label |
connection-bandwidth | vpls-rsvp-te-p2mp-lsp-information | history | l2vpn-local-site-id |
l2vpn-remote-site-id | mesh-group-name)*>
<!ATTLIST connection heading CDATA #IMPLIED>

<!ELEMENT connection-bandwidth (bandwidth | class-type | class-bandwidth)*>
<!ATTLIST connection-bandwidth heading CDATA #IMPLIED>

<!ELEMENT connection-id (#PCDATA)>

<!ELEMENT connection-status (#PCDATA)>

<!ELEMENT connection-type (#PCDATA)>

<!ELEMENT connections-summary (vc-up-count | vc-down-count)*>

<!ELEMENT contributing-route-count (#PCDATA)>

<!ELEMENT control-channel-unusable EMPTY>

<!ELEMENT control-word (#PCDATA)>

<!ELEMENT control-word-type (#PCDATA)>

<!ELEMENT cos (#PCDATA)>

<!ELEMENT cos-info (queue-number | tx-rate | tx-rate-percent | high-priority | bw-exact)*>

<!ELEMENT count (#PCDATA)>

<!ELEMENT csnp-interval (#PCDATA)>

<!ELEMENT cspf-paths (total-paths | successful | no-route | sys-error | cspfs)*>

<!ELEMENT cspf-queue (current | maximum | dequeued)*>

<!ELEMENT cspf-status (#PCDATA)>

<!ELEMENT cspf-time (#PCDATA)>

<!ELEMENT cspf-timing (total-time | cspf-time | average-time | rpd-time)*>

<!ELEMENT cspfs (#PCDATA)>
```

<!ELEMENT ct-bw (#PCDATA)>

<!ELEMENT ct-bw0 (#PCDATA)>

<!ELEMENT ct-bw1 (#PCDATA)>

<!ELEMENT ct-bw2 (#PCDATA)>

<!ELEMENT ct-bw3 (#PCDATA)>

<!ELEMENT ct-bw4 (#PCDATA)>

<!ELEMENT ct-bw5 (#PCDATA)>

<!ELEMENT ct-bw6 (#PCDATA)>

<!ELEMENT ct-bw7 (#PCDATA)>

<!ELEMENT ct-class (#PCDATA)>

<!ELEMENT ct-subscription (#PCDATA)>

<!ELEMENT current (#PCDATA)>

<!ELEMENT current-active EMPTY>

<!ELEMENT current-bandwidth-header EMPTY>

<!ELEMENT current-reserve-bandwidth (#PCDATA)>

<!ELEMENT damped-prefix-count (#PCDATA)>

<!ELEMENT damping-parameters (#PCDATA)>

<!ELEMENT database-entry-state (#PCDATA)>

<!ELEMENT database-telink-id (#PCDATA)>

<!ELEMENT dbd-retransmit-time (#PCDATA)>

<!ELEMENT dbds-retransmit (#PCDATA)>

<!ELEMENT dbds-retransmit-5seconds (#PCDATA)>

<!ELEMENT dead-interval (#PCDATA)>

<!ELEMENT dead-interval-mismatch-error (#PCDATA)>

<!ELEMENT default-damping-parameters EMPTY>

<!ELEMENT default-exclusion-mismatch-error (#PCDATA)>

<!ELEMENT default-mask (#PCDATA)>

<!ELEMENT delete EMPTY>

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<!ELEMENT delete-messages (#PCDATA)>

<!ELEMENT deleted EMPTY>

<!ELEMENT dense EMPTY>

<!ELEMENT dense-event (dense-receive-prune | dense-send-prune | dense-join |
dense-graft)*>

<!ELEMENT dense-graft (pim-interface-name | dense-timeout)*>

<!ELEMENT dense-join (pim-interface-name | dense-timeout)*>

<!ELEMENT dense-receive-prune (pim-interface-name | dense-timeout)*>

<!ELEMENT dense-send-prune (pim-interface-name | dense-timeout)*>

<!ELEMENT dense-timeout (#PCDATA)>

<!ELEMENT dep-active (#PCDATA)>

<!ELEMENT dep-entries (#PCDATA)>

<!ELEMENT dep-flags (#PCDATA)>

<!ELEMENT dep-rtnode-prefix (#PCDATA)>

<!ELEMENT dep-rtnode-prefixlen (#PCDATA)>

<!ELEMENT dequeued (#PCDATA)>

<!ELEMENT description (#PCDATA)>

<!ELEMENT designated-forwarder (#PCDATA)>

<!ELEMENT designated-pe (#PCDATA)>

<!ELEMENT designated-router-address (#PCDATA)>

<!ELEMENT destination-address (#PCDATA)>

<!ELEMENT destination-count (#PCDATA)>

<!ELEMENT destination-network (prefix | destination-network-deleted |
dynamic-tunnel)*>

<!ELEMENT destination-network-deleted EMPTY>

<!ELEMENT destination-prefix (#PCDATA)>

<!ELEMENT destination-router-id (#PCDATA)>

<!ELEMENT destination-tna-address (#PCDATA)>

<!ELEMENT detour (lsp-state | sender-tspec | adspec | path-mtu | path-mtu-in-kernel |
packet-information | explicit-route | record-route | label-out | lsp-diffserv-info | ct-bw)*>
```

<!ELEMENT detour-bandwidth (bandwidth-priority | total-reserved-bandwidth | interface-address)*>

<!ELEMENT detour-branch (source-address | skip-address | lsp-state | sender-tspec | adspec | path-mtu | explicit-route | record-route | packet-information | detour-branch-labels)*>

<!ELEMENT detour-branch-labels (label-in | label-out)*>

<!ELEMENT detours (#PCDATA)>

<!ELEMENT disconnected EMPTY>

<!ELEMENT display-count (#PCDATA)>

<!ELEMENT domain (#PCDATA)>

<!ELEMENT domain-flags (#PCDATA)>

<!ELEMENT down-count (#PCDATA)>

<!ELEMENT down-peer-count (#PCDATA)>

<!ELEMENT downstream-assert-neighbor (neighbor-address | neighbor-assert-metric | neighbor-assert-preference | neighbor-assert-timeout)*>

<!ELEMENT downstream-interface (pim-interface-name | pruned-timeout | pim-interface-state)*>

<!ELEMENT downstream-interface-names (#PCDATA)>

<!ELEMENT downstream-neighbor (neighbor-address | neighbor-state | terse-sparse | terse-rpt | terse-wc | neighbor-timeout)*>

<!ELEMENT dr-address (#PCDATA)>

<!ELEMENT dr-flag (#PCDATA)>

<!ELEMENT dr-id (#PCDATA)>

<!ELEMENT dr-id-one (#PCDATA)>

<!ELEMENT dr-id-two (#PCDATA)>

<!ELEMENT dste-bc-bw (#PCDATA)>

<!ELEMENT dste-bc-count (#PCDATA)>

<!ELEMENT dste-bc-header EMPTY>

<!ELEMENT dste-bc-model (#PCDATA)>

<!ELEMENT dvmrp-cache-lifetime (#PCDATA)>

<!ELEMENT dvmrp-capability-flags (dvmrp-neighbor-one-way | dvmrp-neighbor-prune | dvmrp-neighbor-generation-id | dvmrp-neighbor-mtrace | dvmrp-neighbor-leave | dvmrp-neighbor-snmp | dvmrp-neighbor-netmask)*>

<!ELEMENT dvmrp-designated-querier-information (#PCDATA)>

<!ELEMENT dvmrp-graft (multicast-group-address | multicast-source-address | dvmrp-graft-expire-time | dvmrp-neighbor-address)*>

<!ELEMENT dvmrp-graft-expire-time (#PCDATA)>

<!ELEMENT dvmrp-graft-queue-information (dvmrp-instance)*>

<!ELEMENT dvmrp-grafts-sent (#PCDATA)>

<!ELEMENT dvmrp-group (multicast-group-address | dvmrp-prunes-sent | dvmrp-grafts-sent | dvmrp-cache-lifetime | dvmrp-prune-time | dvmrp-prune-lifetime | dvmrp-prune)*>

<!ELEMENT dvmrp-instance (instance-name | dvmrp-interface | dvmrp-graft | dvmrp-neighbor | dvmrp-prefix-entry | dvmrp-prune)*>

<!ELEMENT dvmrp-interface (interface-name | dvmrp-interface-state | dvmrp-interface-leaf | dvmrp-interface-metric | dvmrp-interface-announcements | dvmrp-interface-mode | dvmrp-interface-holdtime)*>

<!ELEMENT dvmrp-interface-announcements (#PCDATA)>

<!ELEMENT dvmrp-interface-holdtime (#PCDATA)>

<!ELEMENT dvmrp-interface-leaf (#PCDATA)>

<!ELEMENT dvmrp-interface-metric (#PCDATA)>

<!ELEMENT dvmrp-interface-mode (#PCDATA)>

<!ELEMENT dvmrp-interface-state (#PCDATA)>

<!ELEMENT dvmrp-interfaces-information (dvmrp-instance)*>

<!ELEMENT dvmrp-major-version (#PCDATA)>

<!ELEMENT dvmrp-minor-version (#PCDATA)>

<!ELEMENT dvmrp-neighbor (dvmrp-neighbor-address | interface-name | dvmrp-major-version | dvmrp-minor-version | dvmrp-capability-flags | dvmrp-neighbor-routes | dvmrp-neighbor-timeout | dvmrp-neighbor-transitions)*>

<!ELEMENT dvmrp-neighbor-address (#PCDATA)>

<!ELEMENT dvmrp-neighbor-generation-id EMPTY>

<!ELEMENT dvmrp-neighbor-leave EMPTY>

<!ELEMENT dvmrp-neighbor-mtrace EMPTY>

<!ELEMENT dvmrp-neighbor-netmask EMPTY>

<!ELEMENT dvmrp-neighbor-one-way EMPTY>

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<!ELEMENT dvmrp-neighbor-prune EMPTY>

<!ELEMENT dvmrp-neighbor-routes (#PCDATA)>

<!ELEMENT dvmrp-neighbor-snmp EMPTY>

<!ELEMENT dvmrp-neighbor-timeout (#PCDATA)>

<!ELEMENT dvmrp-neighbor-transitions (#PCDATA)>

<!ELEMENT dvmrp-neighbors-information (dvmrp-instance)*>

<!ELEMENT dvmrp-next-hop (#PCDATA)>

<!ELEMENT dvmrp-prefix (#PCDATA)>

<!ELEMENT dvmrp-prefix-age (#PCDATA)>
<!ATTLIST dvmrp-prefix-age junos:seconds CDATA #IMPLIED>

<!ELEMENT dvmrp-prefix-entry (dvmrp-prefix | dvmrp-prefix-length | dvmrp-next-hop |
dvmrp-prefix-age | dvmrp-group)*>

<!ELEMENT dvmrp-prefix-information (dvmrp-instance)*>

<!ELEMENT dvmrp-prefix-length (#PCDATA)>

<!ELEMENT dvmrp-prune (dvmrp-neighbor-address | multicast-group-address |
multicast-source-address | multicast-source-prefix-length | dvmrp-prune-timeout)*>

<!ELEMENT dvmrp-prune-lifetime (#PCDATA)>

<!ELEMENT dvmrp-prune-time (#PCDATA)>

<!ELEMENT dvmrp-prune-timeout (#PCDATA)>

<!ELEMENT dvmrp-prunes-information (dvmrp-instance)*>

<!ELEMENT dvmrp-prunes-sent (#PCDATA)>

<!ELEMENT dynamic-tunnel (tunnel-destination | tunnel-state | tunnel-expiry |
tunnel-reference-count | tunnel-nexthop)*>

<!ELEMENT dynamic-tunnel-table (table-name | destination-network)*>

<!ELEMENT dynamic-tunnels-information (dynamic-tunnel-table)*>

<!ELEMENT elapsed-time (#PCDATA)>
<!ATTLIST elapsed-time junos:seconds CDATA #IMPLIED>

<!ELEMENT element (#PCDATA)>

<!ELEMENT encoding-type (#PCDATA)>

<!ELEMENT end-system-element (end-system-id | end-system-metric)*>

<!ELEMENT end-system-id (#PCDATA)>
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<!ELEMENT end-system-metric (#PCDATA)>

<!ELEMENT entry-state (#PCDATA)>

<!ELEMENT error-count (#PCDATA)>

<!ELEMENT error-count-5seconds (#PCDATA)>

<!ELEMENT error-message (#PCDATA)>

<!ELEMENT error-send-count (#PCDATA)>

<!ELEMENT es-neighbor-id (#PCDATA)>

<!ELEMENT esis-adjacency (esis-neighbor-type | esis-neighbor-id | holdtime |
esis-adjacency-advertised-holdtime | snpa | interface-name | esis-adjacency-log)*>

<!ELEMENT esis-adjacency-advertised-holdtime (#PCDATA)>

<!ELEMENT esis-adjacency-count (#PCDATA)>

<!ELEMENT esis-adjacency-down-reason (#PCDATA)>

<!ELEMENT esis-adjacency-event (#PCDATA)>

<!ELEMENT esis-adjacency-information (esis-adjacency)*>
<!ATTLIST esis-adjacency-information junos:style CDATA #IMPLIED>

<!ELEMENT esis-adjacency-log (esis-adjacency-when | esis-adjacency-state |
esis-adjacency-event | esis-adjacency-down-reason)*>

<!ELEMENT esis-adjacency-state (#PCDATA)>

<!ELEMENT esis-adjacency-when (#PCDATA)>
<!ATTLIST esis-adjacency-when junos:seconds CDATA #IMPLIED>

<!ELEMENT esis-esct (#PCDATA)>

<!ELEMENT esis-hello-interval (#PCDATA)>

<!ELEMENT esis-interface (interface-name | esis-interface-receives |
esis-interface-sends | interface-index | esis-interface-state-value | esis-hello-interval |
holdtime | esis-esct | esis-adjacency-count | esis-interface-net)*>

<!ELEMENT esis-interface-information (esis-interface)*>
<!ATTLIST esis-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT esis-interface-net (#PCDATA)>

<!ELEMENT esis-interface-receives (#PCDATA)>

<!ELEMENT esis-interface-sends (#PCDATA)>

<!ELEMENT esis-interface-state-value (#PCDATA)>

<!ELEMENT esis-neighbor-id (#PCDATA)>
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<!ELEMENT esis-neighbor-type (#PCDATA)>

<!ELEMENT esis-pdu-statistics (esis-pdu-type | packets-received | packets-processed |
packets-dropped | packets-sent | packets-retransmitted)*>

<!ELEMENT esis-pdu-type (#PCDATA)>

<!ELEMENT esis-statistics-information (esis-pdu-statistics | esis-totals-information)*>

<!ELEMENT esis-totals-information (packets-received | packets-sent)*>

<!ELEMENT estab-ack-receive-count (#PCDATA)>

<!ELEMENT estab-send-count (#PCDATA)>

<!ELEMENT established-count (#PCDATA)>

<!ELEMENT estimated-free-bytes (#PCDATA)>

<!ELEMENT event-name (#PCDATA)>

<!ELEMENT event-time (#PCDATA)>

<!ELEMENT everything (pim-statistics-global | pim-statistics-other)*>

<!ELEMENT expiration-time (#PCDATA)>

<!ELEMENT expire-time (#PCDATA)>
<!ATTLIST expire-time junos:seconds CDATA #IMPLIED>

<!ELEMENT explicit-route (address | explicit-route-type | telink-id)*>
<!ATTLIST explicit-route heading CDATA #IMPLIED>

<!ELEMENT explicit-route-type (#PCDATA)>

<!ELEMENT export-count (#PCDATA)>

<!ELEMENT export-list (#PCDATA)>

<!ELEMENT export-policy (#PCDATA)>

<!ELEMENT ext-int-intf-index (#PCDATA)>

<!ELEMENT ext-int-type (#PCDATA)>

<!ELEMENT extended-community (#PCDATA)>

<!ELEMENT extended-information (#PCDATA)>

<!ELEMENT external-peer-count (#PCDATA)>

<!ELEMENT external-prefix-metric (#PCDATA)>

<!ELEMENT family (#PCDATA)>

<!ELEMENT fast-reroute-priority (#PCDATA)>
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<!ELEMENT fdep-depnode (dep-rtnode-prefix | dep-rtnode-prefixlen | dep-entries |
dep-active | dep-flags)*>

<!ELEMENT fdep-destination (#PCDATA)>

<!ELEMENT fdep-inode (fdep-inode-color | fdep-inode-consist | fdep-inode-asn)*>

<!ELEMENT fdep-inode-asn (#PCDATA)>

<!ELEMENT fdep-inode-color (#PCDATA)>

<!ELEMENT fdep-inode-consist (#PCDATA)>

<!ELEMENT fdep-node (fdep-destination | fdep-prefixlen | fdep-inode | fdep-rtnode |
fdep-depnode)*>

<!ELEMENT fdep-prefixlen (#PCDATA)>

<!ELEMENT fdep-rtnode (rtnode-state | rtnode-refcount | rtnode-origin | rtnode-next-as |
rtnode-flags)*>

<!ELEMENT filelimit (#PCDATA)>

<!ELEMENT filename (#PCDATA)>

<!ELEMENT filesize (#PCDATA)>

<!ELEMENT filter (#PCDATA)>

<!ELEMENT filter-in-updates (#PCDATA)>

<!ELEMENT filter-mode (#PCDATA)>

<!ELEMENT filter-out-updates (#PCDATA)>

<!ELEMENT filter-qcount (#PCDATA)>

<!ELEMENT filter-type (#PCDATA)>

<!ELEMENT first-hop-address (#PCDATA)>

<!ELEMENT first-update (#PCDATA)>
<!ATTLIST first-update junos:seconds CDATA #IMPLIED>

<!ELEMENT firstfrag-lsp-id (#PCDATA)>

<!ELEMENT flags (#PCDATA)>

<!ELEMENT flap-count (#PCDATA)>

<!ELEMENT flood-list-count (#PCDATA)>

<!ELEMENT flood-queue-depth (#PCDATA)>

<!ELEMENT flooded-bytes (#PCDATA)>

<!ELEMENT flooded-packets (#PCDATA)>
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<!ELEMENT flow-bandwidth (#PCDATA)>
<!ELEMENT flow-dep-state (#PCDATA)>
<!ELEMENT flow-map-name (#PCDATA)>
<!ELEMENT flow-origin (#PCDATA)>
<!ELEMENT flow-rtn-dest (#PCDATA)>
<!ELEMENT flow-rtn-plen (#PCDATA)>
<!ELEMENT flow-rtn-state (#PCDATA)>
<!ELEMENT flow-ucast-rt (flow-rtn-dest | flow-rtn-plen | flow-rtn-state)*>
<!ELEMENT formatted-tlv-data (#PCDATA)>
<!ELEMENT forward-address (#PCDATA)>
<!ELEMENT forward-nz EMPTY>
<!ELEMENT forward-rsvp EMPTY>
<!ELEMENT forwarded-packet-count (#PCDATA)>
<!ELEMENT forwarding-nh-count (#PCDATA)>
<!ELEMENT forwarding-rate-kilobytes (#PCDATA)>
<!ELEMENT forwarding-rate-packets (#PCDATA)>
<!ELEMENT fragments-rebuilt (#PCDATA)>
<!ELEMENT gateway (#PCDATA)>
<!ELEMENT generation-timer (#PCDATA)>
<!ELEMENT gpid (#PCDATA)>
<!ELEMENT graceful-deletion-timeout (#PCDATA)>
<!ELEMENT graceful-deletion-triggered EMPTY>
<!ELEMENT group-count (#PCDATA)>
<!ELEMENT group-flags (#PCDATA)>
<!ELEMENT group-index (#PCDATA)>
<!ELEMENT group-name (#PCDATA)>
<!ELEMENT group-state (#PCDATA)>
<!ELEMENT half-open-peer-count (#PCDATA)>
```

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<!ELEMENT hello-default-holdtime (#PCDATA)>

<!ELEMENT hello-default-holdtime-remaining (#PCDATA)>

<!ELEMENT hello-dr-priority (#PCDATA)>

<!ELEMENT hello-generation-id (#PCDATA)>

<!ELEMENT hello-holdtime (#PCDATA)>

<!ELEMENT hello-holdtime-remaining (#PCDATA)>

<!ELEMENT hello-interval (#PCDATA)>

<!ELEMENT hello-interval-mismatch-error (#PCDATA)>

<!ELEMENT hello-lanprune-delay (#PCDATA)>

<!ELEMENT hello-override-interval (#PCDATA)>

<!ELEMENT hello-padding (#PCDATA)>

<!ELEMENT hello-received-error (#PCDATA)>

<!ELEMENT hello-time (#PCDATA)>

<!ELEMENT hellos-received (#PCDATA)>

<!ELEMENT hellos-sent (#PCDATA)>

<!ELEMENT helper-nhid (#PCDATA)>

<!ELEMENT helper-refcount (#PCDATA)>

<!ELEMENT helper-status (#PCDATA)>

<!ELEMENT hidden-route-count (#PCDATA)>

<!ELEMENT high-priority (#PCDATA)>

<!ELEMENT high-watermark (#PCDATA)>

<!ELEMENT history (log-time-stamp | log-event | changed-entity)*>
<!ATTLIST history category-heading CDATA #IMPLIED>
<!ATTLIST history heading CDATA #IMPLIED>

<!ELEMENT history-prefix-count (#PCDATA)>

<!ELEMENT hold-priority (#PCDATA)>

<!ELEMENT holddown-route-count (#PCDATA)>

<!ELEMENT holdtime (#PCDATA)>

<!ELEMENT hoplimit (#PCDATA)>

<!ELEMENT host-count (#PCDATA)>
```

<!ELEMENT host-record (record-type | receiver | record-timeout)*>

<!ELEMENT hostname (#PCDATA)>

<!ELEMENT hostname-tlv (hostname)*>

<!ELEMENT identifier (#PCDATA)>

<!ELEMENT idrp-tlv (tlv-length)*>

<!ELEMENT ifl-repository-state (#PCDATA)>

<!ELEMENT iflist-next-hop (next-hop-id | next-hop-ref-count | next-hop-kernel-ref-count | next-hop-downstream-interface)*>

<!ELEMENT igmp-group-information (mgm-interface-groups)*>

<!ELEMENT igmp-hosts-information (mgm-disabled-interface-name | mgm-interface)*>

<!ELEMENT igmp-interface-information (mgm-interface | mgm-configured-parameters | mgm-derived-parameters)*>

<!ELEMENT igmp-output-group-information (mgm-interface-output-groups)*>

<!ELEMENT igmp-statistics-information (mgm-statistics-interface | mgm-statistics-other | mgm-statistics-global | mgm-statistics-all)*>

<!ELEMENT igp-converging EMPTY>

<!ELEMENT igp-ldp-sync-holdtime (#PCDATA)>

<!ELEMENT igp-ldp-sync-last-change (#PCDATA)>

<!ELEMENT igp-ldp-sync-reason (#PCDATA)>

<!ELEMENT igp-ldp-sync-state (#PCDATA)>

<!ELEMENT igp-ldp-sync-timeleft (#PCDATA)>
<!ATTLIST igp-ldp-sync-timeleft junos:seconds CDATA #IMPLIED>

<!ELEMENT igp-protocol (#PCDATA)>

<!ELEMENT immediate-count (#PCDATA)>

<!ELEMENT import-count (#PCDATA)>

<!ELEMENT import-list (#PCDATA)>

<!ELEMENT import-policy (#PCDATA)>

<!ELEMENT inactive-reason (#PCDATA)>

<!ELEMENT inbound-label (#PCDATA)>

<!ELEMENT incomplete EMPTY>

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<!ELEMENT index (#PCDATA)>

<!ELEMENT indication-lsa EMPTY>

<!ELEMENT indirect-nh (#PCDATA)>

<!ELEMENT indirect-nh-count (#PCDATA)>

<!ELEMENT input-messages (#PCDATA)>

<!ELEMENT input-octets (#PCDATA)>

<!ELEMENT input-refreshes (#PCDATA)>

<!ELEMENT input-updates (#PCDATA)>

<!ELEMENT installation-time (#PCDATA)>

<!ELEMENT instance (instance-name | instance-display-error | reference-site |
ldp-vpls-reference-site | vpls-protocol-state | vpls-rsvp-te-ingress-p2mp-lsp |
provider-tunnel | neighbor | c-multicast-ipv4 | c-multicast-ipv6)*>
<!ATTLIST instance junos:style CDATA #IMPLIED>

<!ELEMENT instance-core (instance-name | instance-description | router-id |
instance-type | instance-state | instance-restart-state | instance-pathsel-timeout |
instance-rib | instance-interface | instance-vrf)*>
<!ATTLIST instance-core heading CDATA #IMPLIED>

<!ELEMENT instance-description (#PCDATA)>

<!ELEMENT instance-display-error (#PCDATA)>

<!ELEMENT instance-entry (instance-name | instance-display-error | provider-tunnel |
neighbor | c-multicast-ipv4 | c-multicast-ipv6)*>

<!ELEMENT instance-entry-summary (neighbor-summary | c-multicast-summary)*>

<!ELEMENT instance-flags (#PCDATA)>

<!ELEMENT instance-id (#PCDATA)>

<!ELEMENT instance-id-mismatch-error (#PCDATA)>

<!ELEMENT instance-information (instance-core)*>
<!ATTLIST instance-information junos:style CDATA #IMPLIED>

<!ELEMENT instance-interface (interface-name)*>

<!ELEMENT instance-name (#PCDATA)>

<!ELEMENT instance-options (#PCDATA)>

<!ELEMENT instance-pathsel-timeout (#PCDATA)>

<!ELEMENT instance-restart-state (#PCDATA)>
```

<!ELEMENT instance-rib (irib-name | irib-route-count | irib-active-count | irib-holddown-count | irib-hidden-count | irib-restart-state)*>

<!ELEMENT instance-state (#PCDATA)>

<!ELEMENT instance-type (#PCDATA)>

<!ELEMENT instance-vrf (route-distinguisher | vrf-import | vrf-export | vrf-import-target | vrf-export-target | fast-reroute-priority)*>

<!ELEMENT interface (interface-name | interface-id | interface-description | local-interface-index | interface-flags | interface-flags-description)*>

<!ELEMENT interface-address (#PCDATA)>

<!ELEMENT interface-cost (#PCDATA)>

<!ELEMENT interface-description (#PCDATA)>

<!ELEMENT interface-description-list (#PCDATA)>

<!ELEMENT interface-disabled-flag EMPTY>

<!ELEMENT interface-encapsulation (#PCDATA)>

<!ELEMENT interface-flags (#PCDATA)>

<!ELEMENT interface-flags-description (#PCDATA)>

<!ELEMENT interface-flood-list-count (#PCDATA)>

<!ELEMENT interface-flood-reduction EMPTY>

<!ELEMENT interface-id (#PCDATA)>

<!ELEMENT interface-index (#PCDATA)>

<!ELEMENT interface-join-count (#PCDATA)>

<!ELEMENT interface-label-info (#PCDATA)>

<!ELEMENT interface-level-data (level | adjacency-count | interface-priority | metric | te-metric | passive | hello-time | holdtime | dr-id-one | dr-id-two | dr-flag | isis-interface-level-topology)*>

<!ELEMENT interface-link-name (#PCDATA)>

<!ELEMENT interface-local-bandwidth-deduction (#PCDATA)>

<!ELEMENT interface-mapped-bandwidth-deduction (#PCDATA)>

<!ELEMENT interface-max-bandwidth (#PCDATA)>

<!ELEMENT interface-mismatch-count (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

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<!ELEMENT interface-no-qos-adjust (#PCDATA)>

<!ELEMENT interface-priority (#PCDATA)>

<!ELEMENT interface-protection-type (#PCDATA)>

<!ELEMENT interface-remaining-bandwidth (#PCDATA)>

<!ELEMENT interface-repository-state (#PCDATA)>

<!ELEMENT interface-reverse-oif-mapping (#PCDATA)>

<!ELEMENT interface-reverse-oif-mapping-no-qos-adjust (#PCDATA)>

<!ELEMENT interface-secondary EMPTY>

<!ELEMENT interface-state (#PCDATA)>

<!ELEMENT interface-state-value (#PCDATA)>

<!ELEMENT interface-statistics (interface | remote-pe | broadcast-packets |
broadcast-bytes | multicast-packets | multicast-bytes | flooded-packets | flooded-bytes |
unicast-packets | unicast-bytes | mac-limit | num-mac-count)*>

<!ELEMENT interface-status (#PCDATA)>

<!ELEMENT interface-subscriber-leave-timer (#PCDATA)>

<!ELEMENT interface-type (#PCDATA)>

<!ELEMENT internal-peer-count (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT ip-prefix-tlv (isis-topology-id | address-prefix | metric | prefix-status |
subtlv-size | isis-prefix-subtlv)*>
<!ATTLIST ip-prefix-tlv heading CDATA #IMPLIED>

<!ELEMENT ip-protocol-version (#PCDATA)>

<!ELEMENT ipaddress-tlv (address)*>

<!ELEMENT ipsec-sa (#PCDATA)>

<!ELEMENT ipv6-address (#PCDATA)>

<!ELEMENT ipv6-ra-advertisement (ipv6-source-address | ipv6-ra-time-since |
ipv6-ra-managed-flag | ipv6-ra-managed-flag-conflict | ipv6-ra-other-config-flag |
ipv6-ra-other-config-flag-conflict | ipv6-ra-link-mtu | ipv6-ra-link-mtu-conflict |
ipv6-ra-reachable-time | ipv6-ra-reachable-time-conflict | ipv6-ra-default-lifetime |
ipv6-ra-default-lifetime-conflict | ipv6-ra-retransmit-timer |
ipv6-ra-retransmit-timer-conflict | ipv6-ra-current-hop-limit |
ipv6-ra-current-hop-limit-conflict | ipv6-ra-prefix)*>

<!ELEMENT ipv6-ra-advertisement-sent-time (#PCDATA)>
<!ATTLIST ipv6-ra-advertisement-sent-time junos:seconds CDATA #IMPLIED>
```

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<!ELEMENT ipv6-ra-advertisements-received (#PCDATA)>

<!ELEMENT ipv6-ra-advertisements-sent (#PCDATA)>

<!ELEMENT ipv6-ra-current-hop-limit (#PCDATA)>

<!ELEMENT ipv6-ra-current-hop-limit-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-default-lifetime (#PCDATA)>

<!ELEMENT ipv6-ra-default-lifetime-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-information (ipv6-ra-interface)*>

<!ELEMENT ipv6-ra-interface (interface-name | ipv6-ra-advertisements-sent |
ipv6-ra-advertisement-sent-time | ipv6-ra-solicits-received | ipv6-ra-solicit-receive-time |
ipv6-ra-advertisements-received | vrrp-group | ipv6-ra-advertisement)*>

<!ELEMENT ipv6-ra-link-mtu (#PCDATA)>

<!ELEMENT ipv6-ra-link-mtu-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-managed-flag (#PCDATA)>

<!ELEMENT ipv6-ra-managed-flag-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-other-config-flag (#PCDATA)>

<!ELEMENT ipv6-ra-other-config-flag-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-prefix (ipv6-ra-prefix-address | ipv6-ra-prefix-valid-lifetime |
ipv6-ra-prefix-valid-lifetime-conflict | ipv6-ra-prefix-preferred-lifetime |
ipv6-ra-prefix-preferred-lifetime-conflict | ipv6-ra-prefix-on-link |
ipv6-ra-prefix-on-link-conflict | ipv6-ra-prefix-autonomous |
ipv6-ra-prefix-autonomous-conflict)*>

<!ELEMENT ipv6-ra-prefix-address (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-autonomous (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-autonomous-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-on-link (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-on-link-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-preferred-lifetime (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-preferred-lifetime-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-valid-lifetime (#PCDATA)>

<!ELEMENT ipv6-ra-prefix-valid-lifetime-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-reachable-time (#PCDATA)>

<!ELEMENT ipv6-ra-reachable-time-conflict (#PCDATA)>
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<!ELEMENT ipv6-ra-retransmit-timer (#PCDATA)>

<!ELEMENT ipv6-ra-retransmit-timer-conflict (#PCDATA)>

<!ELEMENT ipv6-ra-solicit-receive-time (#PCDATA)>
<!ATTLIST ipv6-ra-solicit-receive-time junos:seconds CDATA #IMPLIED>

<!ELEMENT ipv6-ra-solicits-received (#PCDATA)>

<!ELEMENT ipv6-ra-time-since (#PCDATA)>
<!ATTLIST ipv6-ra-time-since junos:seconds CDATA #IMPLIED>

<!ELEMENT ipv6-reachability-tlv (isis-topology-id | ipv6-address | metric | prefix-extern |
prefix-downflag | subtlv-size | isis-prefix-subtlv)*>
<!ATTLIST ipv6-reachability-tlv heading CDATA #IMPLIED>

<!ELEMENT ipv6-source-address (#PCDATA)>

<!ELEMENT ipv6address-tlv (address)*>

<!ELEMENT irb-present (#PCDATA)>

<!ELEMENT irib-active-count (#PCDATA)>

<!ELEMENT irib-hidden-count (#PCDATA)>

<!ELEMENT irib-holddown-count (#PCDATA)>

<!ELEMENT irib-name (#PCDATA)>

<!ELEMENT irib-restart-state (#PCDATA)>

<!ELEMENT irib-route-count (#PCDATA)>

<!ELEMENT is-detour EMPTY>

<!ELEMENT is-fastreroute EMPTY>

<!ELEMENT is-linkprotection EMPTY>

<!ELEMENT is-neighbor-id (#PCDATA)>

<!ELEMENT is-nodeprotection EMPTY>

<!ELEMENT is-primary EMPTY>

<!ELEMENT is-reachability (isis-fragment | isis-topology-id | is-neighbor-id | flags |
isis-pseudonode | interface-name | metric | subtlv-size | te-metric | local-address |
remote-address | local-ifindex | remote-ifindex | level)*>

<!ELEMENT is-soft-preemption EMPTY>
```

<!ELEMENT isis-adjacency (interface-name | system-name | not-remote-address | level | adjacency-state | holdtime | interface-priority | transition-count | last-transition-time | circuit-type | adjacency-restart-capable | adjacency-advertisement | adjacency-flag | adjacency-topologies | mac-address | lan-id | ip-address | ipv6-address | snpa | isis-adjacency-log)*>

<!ELEMENT isis-adjacency-holddown (#PCDATA)>

<!ELEMENT isis-adjacency-information (isis-adjacency)*>
<!ATTLIST isis-adjacency-information junos:style CDATA #IMPLIED>

<!ELEMENT isis-adjacency-log (adjacency-when | adjacency-state | adjacency-event | adjacency-down-reason)*>

<!ELEMENT isis-attached-bit-evaluation (#PCDATA)>

<!ELEMENT isis-authentication-information (isis-interface-authentication | isis-lsp-authentication)*>

<!ELEMENT isis-backup-coverage (isis-topology-id | level | isis-node-coverage | isis-route-coverage-ipv4 | isis-route-coverage-ipv6 | isis-route-coverage-clns)*>

<!ELEMENT isis-backup-coverage-information (isis-backup-coverage)*>

<!ELEMENT isis-backup-mplsp (lsp-name | lsp-status | lsp-addr | metric | te-metric | lsp-last-change | lsp-refcount)*>

<!ELEMENT isis-backup-mplsp-information (isis-backup-mplsp)*>

<!ELEMENT isis-backup-spf-result (node-id | no-first-fragment | backup-root | backup-root-metric | metric | track-item | next-hop-element | backup-next-hop-element | no-coverage-reason)*>

<!ELEMENT isis-database (level | isis-database-entry | lsp-count)*>

<!ELEMENT isis-database-entry (lsp-id | sequence-number | checksum | remaining-lifetime | lsp-attributes | isis-neighbor | isis-prefix | isis-header | isis-packet | lsp-stub | isis-tlv | transmission-status | isis-es-neighbor)*>

<!ELEMENT isis-database-information (isis-database)*>
<!ATTLIST isis-database-information junos:style CDATA #IMPLIED>

<!ELEMENT isis-database-local (level | isis-database-local-entry)*>

<!ELEMENT isis-database-local-data (isis-database-local-data-type | isis-database-local-data-name | tlv-size | address | protocol | mtid | router-id | hostname | prefix-reachability | is-reachability | unknown-local-data)*>

<!ELEMENT isis-database-local-data-name (#PCDATA)>

<!ELEMENT isis-database-local-data-type (#PCDATA)>

<!ELEMENT isis-database-local-entry (lsp-id | sequence-number | checksum | remaining-lifetime | lsp-attributes | isis-database-local-data | estimated-free-bytes)*>

<!ELEMENT isis-database-local-information (isis-database-local)*>

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<!ELEMENT isis-es-neighbor (es-neighbor-id | metric | reachability-delay |
reachability-expense | reachability-error)*>

<!ELEMENT isis-external-preference (#PCDATA)>

<!ELEMENT isis-fragment (#PCDATA)>

<!ELEMENT isis-header (lsp-id | pdu-length | allocated-length | router-id |
remaining-lifetime | level | interface-index | estimated-free-bytes | actual-free-bytes |
lsdb-timer-type | lsdb-expiration-time | needs-rebuild | protocol)*>

<!ELEMENT isis-hostname (system-id | system-name | isis-hostname-type)*>

<!ELEMENT isis-hostname-information (isis-hostname)*>

<!ELEMENT isis-hostname-type (#PCDATA)>

<!ELEMENT isis-ignore-lsp-metrics EMPTY>

<!ELEMENT isis-interface (interface-name | circuit-type | circuit-id |
isis-interface-state-one | isis-interface-state-two | interface-disabled-flag | dr-id-one |
dr-id-two | metric-one | metric-two | interface-index | interface-state-value | lsp-interval |
csnp-interval | hello-padding | interface-protection-type | no-eligible-backup |
system-name | mesh-group | adjacency-advertisement | interface-level-data |
igp-ldp-sync-holdtime | igp-ldp-sync-state | igp-ldp-sync-last-change | igp-ldp-sync-reason |
igp-ldp-sync-timeleft)*>
<!ATTLIST isis-interface heading CDATA #IMPLIED>

<!ELEMENT isis-interface-authentication (interface-name |
isis-interface-level-authentication)*>

<!ELEMENT isis-interface-information (isis-interface)*>
<!ATTLIST isis-interface-information junos:style CDATA #IMPLIED>

<!ELEMENT isis-interface-level-authentication (level |
isis-interface-level-iih-authentication | isis-interface-level-csn-authentication |
isis-interface-level-psn-authentication)*>

<!ELEMENT isis-interface-level-csn-authentication (#PCDATA)>

<!ELEMENT isis-interface-level-iih-authentication (#PCDATA)>

<!ELEMENT isis-interface-level-psn-authentication (#PCDATA)>

<!ELEMENT isis-interface-level-topology (isis-topology-id | isis-topology-metric)*>

<!ELEMENT isis-interface-state-one (#PCDATA)>

<!ELEMENT isis-interface-state-two (#PCDATA)>

<!ELEMENT isis-ipv4-multicast-rpf-routes EMPTY>

<!ELEMENT isis-iso-prefix-tlv (metric | metric-flag | reachability-delay |
reachability-expense | reachability-error | prefix-status | iso-prefix)*>
<!ATTLIST isis-iso-prefix-tlv heading CDATA #IMPLIED>

<!ELEMENT isis-level (#PCDATA)>
```

<!ELEMENT isis-level-information (isis-level | isis-preference | isis-external-preference | isis-prefix-export-limit | isis-narrow-metrics | isis-wide-metrics)*>

<!ELEMENT isis-level-lsp-authentication (#PCDATA)>

<!ELEMENT isis-lsp-authentication (level | isis-level-lsp-authentication)*>

<!ELEMENT isis-lsp-lifetime (#PCDATA)>
<!ATTLIST isis-lsp-lifetime junos:seconds CDATA #IMPLIED>

<!ELEMENT isis-max-areas (#PCDATA)>

<!ELEMENT isis-narrow-metrics EMPTY>

<!ELEMENT isis-neighbor (isis-topology-id | is-neighbor-id | metric | two-way-lsp-id | firstfrag-lsp-id | reachability-delay | reachability-expense | reachability-error)*>

<!ELEMENT isis-next-hop (#PCDATA)>

<!ELEMENT isis-next-hop-type (#PCDATA)>

<!ELEMENT isis-node-coverage (#PCDATA)>

<!ELEMENT isis-overload-allow-route-leaking (#PCDATA)>

<!ELEMENT isis-overload-enabled EMPTY>

<!ELEMENT isis-overload-high-metrics (#PCDATA)>

<!ELEMENT isis-overload-information (isis-overload-enabled | isis-overload-high-metrics | isis-overload-allow-route-leaking | isis-overload-timeout | isis-overload-remaining-time)*>

<!ELEMENT isis-overload-remaining-time (#PCDATA)>
<!ATTLIST isis-overload-remaining-time junos:seconds CDATA #IMPLIED>

<!ELEMENT isis-overload-timeout (#PCDATA)>
<!ATTLIST isis-overload-timeout junos:seconds CDATA #IMPLIED>

<!ELEMENT isis-overview (instance-name | isis-router-id | isis-max-areas | isis-lsp-lifetime | isis-reference-bandwidth | isis-adjacency-holddown | isis-attached-bit-evaluation | isis-spf-information | isis-overload-information | isis-routing | isis-traffic-engineering | isis-restart | isis-level-information)*>

<!ELEMENT isis-overview-information (isis-overview)*>

<!ELEMENT isis-packet (lsp-id | pdu-length | pdu-lifetime | checksum | sequence-number | lsp-attributes | nlp-id | mtid | lsp-length | pdu-version | system-id-length | isis-packet-type | packet-version | maximum-area)*>

<!ELEMENT isis-packet-type (#PCDATA)>

<!ELEMENT isis-pdu-statistics (isis-pdu-type | packets-received | packets-processed | packets-dropped | packets-sent | packets-retransmitted)*>

<!ELEMENT isis-pdu-type (#PCDATA)>

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<!ELEMENT isis-preference (#PCDATA)>

<!ELEMENT isis-prefix (protocol-name | isis-topology-id | address-prefix | metric |
prefix-flag | prefix-status | reachability-delay | reachability-expense | reachability-error)*>
<!ATTLIST isis-prefix junos:style CDATA #IMPLIED>

<!ELEMENT isis-prefix-export-limit (#PCDATA)>

<!ELEMENT isis-prefix-subtlv (isis-prefix-tag)*>

<!ELEMENT isis-prefix-tag (isis-prefix-tag-index | isis-prefix-tag-value)*>

<!ELEMENT isis-prefix-tag-index (#PCDATA)>

<!ELEMENT isis-prefix-tag-value (#PCDATA)>

<!ELEMENT isis-pseudonode (#PCDATA)>

<!ELEMENT isis-reachability-subtlv (isis-subtlv-type | subtlv-length | max-bandwidth |
max-reserve-bandwidth | current-bandwidth-header | current-reserve-bandwidth |
admin-groups | bandwidth-priority | local-ifindex | remote-ifindex | address |
neighbor-prefix | address-prefix | prefix-err-message | te-metric | dste-bc-header |
dste-bc-model | dste-bc-count | dste-bc-bw)*>

<!ELEMENT isis-reference-bandwidth (#PCDATA)>

<!ELEMENT isis-replication-adjacency (interface-name | system-name | level |
adjacency-state | snpa | instance-name | interface-index | reference-count |
transition-count | last-transition-time | adjacency-event)*>

<!ELEMENT isis-replication-adjacency-information (isis-replication-adjacency)*>

<!ELEMENT isis-replication-database (instance-name | level |
isis-replication-database-entry | isis-replication-database-entry-count)*>

<!ELEMENT isis-replication-database-entry (lsp-id | sequence-number | checksum |
remaining-lifetime | replication-entry-in-use)*>

<!ELEMENT isis-replication-database-entry-count (#PCDATA)>

<!ELEMENT isis-replication-database-information (isis-replication-database)*>

<!ELEMENT isis-replication-interface (interface-name | instance-name | circuit-id |
dr-id-one | dr-id-two | isis-interface-state-one | isis-interface-state-two |
replication-entry-in-use)*>

<!ELEMENT isis-replication-interface-information (isis-replication-interface)*>

<!ELEMENT isis-replication-statistics (isis-replication-type | add-messages |
change-messages | delete-messages)*>

<!ELEMENT isis-replication-statistics-information (isis-replication-statistics)*>

<!ELEMENT isis-replication-system-id (instance-name | system-id |
replication-entry-in-use)*>

<!ELEMENT isis-replication-system-id-information (isis-replication-system-id)*>
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<!ELEMENT isis-replication-type (#PCDATA)>

<!ELEMENT isis-restart (isis-restart-enabled | isis-restart-duration |
isis-restart-helper-mode-enabled)*>

<!ELEMENT isis-restart-duration (#PCDATA)>
<!ATTLIST isis-restart-duration junos:seconds CDATA #IMPLIED>

<!ELEMENT isis-restart-enabled (#PCDATA)>

<!ELEMENT isis-restart-helper-mode-enabled (#PCDATA)>

<!ELEMENT isis-route (address-prefix | level | route-version | metric | metric-type |
interface-name | isis-next-hop-type | isis-next-hop | snpa)*>
<!ATTLIST isis-route junos:style CDATA #IMPLIED>

<!ELEMENT isis-route-coverage-clns (#PCDATA)>

<!ELEMENT isis-route-coverage-ipv4 (#PCDATA)>

<!ELEMENT isis-route-coverage-ipv6 (#PCDATA)>

<!ELEMENT isis-route-information (isis-routing-table)*>

<!ELEMENT isis-router-id (#PCDATA)>

<!ELEMENT isis-routing (isis-routing-ipv4 | isis-routing-ipv6 | isis-routing-clns)*>

<!ELEMENT isis-routing-clns EMPTY>

<!ELEMENT isis-routing-ipv4 EMPTY>

<!ELEMENT isis-routing-ipv6 EMPTY>

<!ELEMENT isis-routing-table (isis-topology-id | level-one-version | level-two-version |
isis-route)*>

<!ELEMENT isis-spf (isis-spf-results-header | isis-spf-result | node-count |
isis-spf-log-header | isis-spf-log | isis-backup-spf-result)*>

<!ELEMENT isis-spf-delay (#PCDATA)>
<!ATTLIST isis-spf-delay junos:seconds CDATA #IMPLIED>

<!ELEMENT isis-spf-holddown (#PCDATA)>
<!ATTLIST isis-spf-holddown junos:seconds CDATA #IMPLIED>

<!ELEMENT isis-spf-information (isis-spf-delay | isis-spf-holddown | isis-spf-rapid-runs |
isis-spf)*>

<!ELEMENT isis-spf-log (start-time | elapsed-time | spf-trigger-count | logging-reason |
lsp-name | system-name | interface-name)*>

<!ELEMENT isis-spf-log-header (level | isis-topology-id)*>

<!ELEMENT isis-spf-rapid-runs (#PCDATA)>
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<!ELEMENT isis-spf-result (node-id | disconnected | metric | no-first-fragment |
next-hop-element | prefix-element | end-system-element)*>

<!ELEMENT isis-spf-results-header (level | isis-topology-id)*>

<!ELEMENT isis-statistics (system-name | isis-pdu-statistics | totals-information |
snp-queue-length | snp-queue-drops | lsp-queue-length | lsp-queue-drops | spf-runs |
fragments-rebuilt | lsps-regenerated | purges-initiated)*>

<!ELEMENT isis-statistics-information (isis-statistics)*>

<!ELEMENT isis-subtlv-type (#PCDATA)>

<!ELEMENT isis-te-shortcuts-clns EMPTY>

<!ELEMENT isis-te-shortcuts-ipv4 EMPTY>

<!ELEMENT isis-te-shortcuts-ipv6 EMPTY>

<!ELEMENT isis-te-status (#PCDATA)>

<!ELEMENT isis-ted-credibility-preference EMPTY>

<!ELEMENT isis-tlv (isis-tlv-overhead | area-address-tlv | protocols-tlv | mt-tlv |
hostname-tlv | ipaddress-tlv | ipv6address-tlv | router-id-tlv | reachability-tlv |
isis-iso-prefix-tlv | isis-prefix-subtlv | ipv6-reachability-tlv | isis-reachability-subtlv |
authentication-tlv | idrp-tlv | ip-prefix-tlv | unknown-tlv | tlv-stragglers)*>
<!ATTLIST isis-tlv heading CDATA #IMPLIED>

<!ELEMENT isis-tlv-overhead (isis-tlv-type | tlv-length | bytes-left)*>

<!ELEMENT isis-tlv-type (#PCDATA)>

<!ELEMENT isis-topology-id (#PCDATA)>

<!ELEMENT isis-topology-metric (#PCDATA)>

<!ELEMENT isis-traffic-engineering (isis-te-status | isis-te-shortcuts-ipv4 |
isis-te-shortcuts-ipv6 | isis-te-shortcuts-clns | isis-ipv4-multicast-rpf-routes |
isis-ignore-lsp-metrics | isis-ted-credibility-preference)*>

<!ELEMENT isis-wide-metrics EMPTY>

<!ELEMENT iso-prefix (#PCDATA)>

<!ELEMENT join-family (pim-instance | address-family | join-summary | join-group)*>
<!ATTLIST join-family junos:style CDATA #IMPLIED>

<!ELEMENT join-group (multicast-group-address | multicast-source-address |
rendezvous-point-address | pim-group-flags | upstream-protocol-name |
upstream-interface-name | pim-interface-state | upstream-neighbor |
upstream-neighbor-rpf-origin | dense-event | downstream-interface |
upstream-state-flags | keepalive-timeout | no-keepalive-timeout |
sparse-downstream-interface)*>
<!ATTLIST join-group junos:style CDATA #IMPLIED>

<!ELEMENT join-summary (multicast-route-type | multicast-route-count)*>
```

```
<!ELEMENT join-timeout (#PCDATA)>

<!ELEMENT join-to-rp EMPTY>

<!ELEMENT join-to-source EMPTY>

<!ELEMENT juniper-routing-aspath (aspath-domain | aspath-table)*>

<!ELEMENT keep-multiplier (#PCDATA)>

<!ELEMENT keepalive-interval (#PCDATA)>

<!ELEMENT keepalive-timeout (#PCDATA)>

<!ELEMENT l2circuit-connection-information (l2circuit-neighbor)*>
<!ATTLIST l2circuit-connection-information junos:style CDATA #IMPLIED>

<!ELEMENT l2circuit-neighbor (neighbor-address | neighbor-display-error |
lsw-interface-name | connection | connections-summary)*>

<!ELEMENT l2ckt-label-repository (neighbor-id | vc-id | vc-label | label-repository-state)*>

<!ELEMENT l2ckt-label-repository-information (l2ckt-label-repository)*>

<!ELEMENT l2iw-domain (l2iw-domain-name)*>

<!ELEMENT l2iw-domain-name (#PCDATA)>

<!ELEMENT l2iw-peering-information (l2iw-domain)*>

<!ELEMENT l2vpn-connection-information (instance)*>

<!ELEMENT l2vpn-label-repository-information (l2vpn-route-distinguisher-information)*>

<!ELEMENT l2vpn-labels (instance-id | site-id | label-block-offset | label-block-base |
label-block-range)*>

<!ELEMENT l2vpn-labels-information (l2vpn-labels)*>

<!ELEMENT l2vpn-local-site-id (#PCDATA)>

<!ELEMENT l2vpn-nlri-advertisement (site-id | label-block-offset | label-block-base |
label-block-range | label-repository-state)*>

<!ELEMENT l2vpn-remote-site-id (#PCDATA)>

<!ELEMENT l2vpn-route-distinguisher-information (route-distinguisher | instance-id |
l2vpn-nlri-advertisement)*>

<!ELEMENT l2vpn-status-vector (#PCDATA)>

<!ELEMENT label-base (#PCDATA)>

<!ELEMENT label-block (label-block-base | label-block-offset | label-block-range |
label-block-preference | label-block-status-vector)*>
<!ATTLIST label-block heading CDATA #IMPLIED>
```

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<!ELEMENT label-block-base (#PCDATA)>

<!ELEMENT label-block-offset (#PCDATA)>

<!ELEMENT label-block-preference (#PCDATA)>

<!ELEMENT label-block-range (#PCDATA)>

<!ELEMENT label-block-status-vector (#PCDATA)>

<!ELEMENT label-in (#PCDATA)>

<!ELEMENT label-out (#PCDATA)>

<!ELEMENT label-range (#PCDATA)>

<!ELEMENT label-repository-state (#PCDATA)>

<!ELEMENT lan-id (#PCDATA)>

<!ELEMENT lanp2p-cfgmismatch-error (#PCDATA)>

<!ELEMENT last-active EMPTY>

<!ELEMENT last-address (#PCDATA)>

<!ELEMENT last-change (#PCDATA)>

<!ELEMENT last-changed-time (#PCDATA)>
<!ATTLIST last-changed-time junos:seconds CDATA #IMPLIED>

<!ELEMENT last-checked (#PCDATA)>

<!ELEMENT last-error (#PCDATA)>

<!ELEMENT last-event (#PCDATA)>

<!ELEMENT last-flap-event (#PCDATA)>

<!ELEMENT last-member-query-interval (#PCDATA)>

<!ELEMENT last-merit (#PCDATA)>

<!ELEMENT last-received (#PCDATA)>

<!ELEMENT last-sent (#PCDATA)>

<!ELEMENT last-state (#PCDATA)>

<!ELEMENT last-transition (#PCDATA)>

<!ELEMENT last-transition-time (#PCDATA)>
<!ATTLIST last-transition-time junos:seconds CDATA #IMPLIED>

<!ELEMENT last-update (#PCDATA)>
<!ATTLIST last-update junos:seconds CDATA #IMPLIED>
```

<!ELEMENT layer2-connection (neighbor-address | interface-name | vc-id | connection-bandwidth)*>

<!ELEMENT layer2-tspec (switching-granularity | mtu | atm-vp-bundle-size | atm-cell-bundle-size)*>

<!ELEMENT ldp-binding (ldp-label | ldp-prefix | ldp-binding-filtered | ldp-binding-stale | ldp-binding-mtu | ldp-binding-cell-bundle-size | ldp-binding-requested-vlan-id | ldp-binding-bitrate | ldp-binding-payload-size | ldp-binding-state | ldp-binding-age | ldp-binding-delete-scheduled | ldp-binding-queued | ldp-binding-not-yet-sent | ldp-binding-standby | ldp-l2circuit-vccv-cc-type | ldp-l2circuit-vccv-cv-type)*>

<!ELEMENT ldp-binding-age (#PCDATA)>

<!ELEMENT ldp-binding-bitrate (#PCDATA)>

<!ELEMENT ldp-binding-cell-bundle-size (#PCDATA)>

<!ELEMENT ldp-binding-delete-scheduled (#PCDATA)>

<!ELEMENT ldp-binding-filtered EMPTY>

<!ELEMENT ldp-binding-mtu (#PCDATA)>

<!ELEMENT ldp-binding-not-yet-sent EMPTY>

<!ELEMENT ldp-binding-payload-size (#PCDATA)>

<!ELEMENT ldp-binding-queued EMPTY>

<!ELEMENT ldp-binding-requested-vlan-id (#PCDATA)>

<!ELEMENT ldp-binding-stale EMPTY>

<!ELEMENT ldp-binding-standby (ldp-binding-standby-map-count | ldp-binding-standby-rel-count)*>

<!ELEMENT ldp-binding-standby-map-count (#PCDATA)>

<!ELEMENT ldp-binding-standby-rel-count (#PCDATA)>

<!ELEMENT ldp-binding-state (#PCDATA)>

<!ELEMENT ldp-block-time (#PCDATA)>

<!ELEMENT ldp-config-sequence (#PCDATA)>

<!ELEMENT ldp-connection-state (#PCDATA)>

<!ELEMENT ldp-database (ldp-database-type | ldp-session-id | ldp-binding)*>

<!ELEMENT ldp-database-information (ldp-database)*>

<!ELEMENT ldp-database-type (#PCDATA)>

<!ELEMENT ldp-down-reason (#PCDATA)>

```
<!ELEMENT ldp-egress-label EMPTY>

<!ELEMENT ldp-event-count (#PCDATA)>

<!ELEMENT ldp-event-count-5seconds (#PCDATA)>

<!ELEMENT ldp-event-statistics (ldp-event-type | ldp-event-count |
ldp-event-count-5seconds)*>

<!ELEMENT ldp-event-type (#PCDATA)>

<!ELEMENT ldp-fec-filter (ldp-prefix | ldp-ingress-filter | ldp-ingress-filterid |
ldp-transit-filter | ldp-transit-filterid)*>

<!ELEMENT ldp-fec-filters-information (ldp-fec-filter)*>

<!ELEMENT ldp-global-label (#PCDATA)>

<!ELEMENT ldp-graceful-restart-local (#PCDATA)>

<!ELEMENT ldp-graceful-restart-remote (#PCDATA)>

<!ELEMENT ldp-graceful-restart-state (#PCDATA)>

<!ELEMENT ldp-hello-interval (#PCDATA)>

<!ELEMENT ldp-hello-received (#PCDATA)>

<!ELEMENT ldp-hello-sent (#PCDATA)>

<!ELEMENT ldp-helper-mode-state (#PCDATA)>

<!ELEMENT ldp-helper-mode-time (#PCDATA)>

<!ELEMENT ldp-holdtime (#PCDATA)>

<!ELEMENT ldp-ingress-filter (#PCDATA)>

<!ELEMENT ldp-ingress-filterid (#PCDATA)>

<!ELEMENT ldp-ingress-label EMPTY>

<!ELEMENT ldp-ingress-route-last-modified-time (#PCDATA)>
<!ATTLIST ldp-ingress-route-last-modified-time junos:seconds CDATA #IMPLIED>

<!ELEMENT ldp-ingress-route-status (#PCDATA)>

<!ELEMENT ldp-inlib-label (#PCDATA)>

<!ELEMENT ldp-inlib-session (#PCDATA)>

<!ELEMENT ldp-instance-id (#PCDATA)>
```

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<!ELEMENT ldp-interface (interface-name | ldp-label-space-id | ldp-neighbor-count |
ldp-next-hello | ldp-hello-interval | ldp-local-hello-interval | ldp-holdtime |
ldp-transport-address | ldp-interface-index | ldp-block-time | ldp-hello-sent |
ldp-hello-received)*>

<!ELEMENT ldp-interface-index (#PCDATA)>

<!ELEMENT ldp-interface-information (ldp-interface)*>

<!ELEMENT ldp-keepalive-interval (#PCDATA)>

<!ELEMENT ldp-keepalive-time (#PCDATA)>

<!ELEMENT ldp-l2circuit-vccv-cc-type (mpls-type-control-word | mpls-type-router-alert |
mpls-type-pw-label)*>

<!ELEMENT ldp-l2circuit-vccv-cv-type (mpls-type-icmp-ping | mpls-type-lsp-ping)*>

<!ELEMENT ldp-label (#PCDATA)>

<!ELEMENT ldp-label-space-id (#PCDATA)>

<!ELEMENT ldp-last-down-time (#PCDATA)>
<!ATTLIST ldp-last-down-time junos:seconds CDATA #IMPLIED>

<!ELEMENT ldp-local-address (#PCDATA)>

<!ELEMENT ldp-local-hello-interval (#PCDATA)>

<!ELEMENT ldp-local-helper-mode (#PCDATA)>

<!ELEMENT ldp-local-maximum-reconnect (#PCDATA)>

<!ELEMENT ldp-local-maximum-recovery (#PCDATA)>

<!ELEMENT ldp-local-reconnect-time (#PCDATA)>

<!ELEMENT ldp-merged-next-hop EMPTY>

<!ELEMENT ldp-message-statistics (ldp-message-type | ldp-messages-sent |
ldp-messages-received | ldp-messages-sent-5seconds |
ldp-messages-received-5seconds)*>

<!ELEMENT ldp-message-type (#PCDATA)>

<!ELEMENT ldp-messages-received (#PCDATA)>

<!ELEMENT ldp-messages-received-5seconds (#PCDATA)>

<!ELEMENT ldp-messages-sent (#PCDATA)>

<!ELEMENT ldp-messages-sent-5seconds (#PCDATA)>
```

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<!ELEMENT ldp-neighbor (ldp-neighbor-address | interface-name | ldp-label-space-id |
ldp-remaining-time | ldp-transport-address | ldp-config-sequence | ldp-up-time |
ldp-reference-count | ldp-holdtime | ldp-proposed-local-holdtime |
ldp-proposed-peer-holdtime | ldp-hello-interval | ldp-neighbor-hello-flags |
ldp-neighbor-types)*>

<!ELEMENT ldp-neighbor-address (#PCDATA)>

<!ELEMENT ldp-neighbor-count (#PCDATA)>

<!ELEMENT ldp-neighbor-hello-flag (#PCDATA)>

<!ELEMENT ldp-neighbor-hello-flags (ldp-neighbor-hello-flag)*>

<!ELEMENT ldp-neighbor-information (ldp-neighbor)*>

<!ELEMENT ldp-neighbor-replication (ldp-instance-id | ldp-neighbor-address |
interface-name | ldp-neighbor-replication-state | ldp-interface-index |
ldp-neighbor-replication-age | ldp-reference-count)*>

<!ELEMENT ldp-neighbor-replication-age (#PCDATA)>

<!ELEMENT ldp-neighbor-replication-information (ldp-neighbor-replication)*>

<!ELEMENT ldp-neighbor-replication-state (#PCDATA)>

<!ELEMENT ldp-neighbor-type (#PCDATA)>

<!ELEMENT ldp-neighbor-types (ldp-neighbor-type)*>

<!ELEMENT ldp-next-hello (#PCDATA)>

<!ELEMENT ldp-nexthop (interface-name | lsp-name | lsp-no-ldp-tunneling |
interface-address | ldp-session-id)*>

<!ELEMENT ldp-no-label EMPTY>

<!ELEMENT ldp-oam-bfd-session (ldp-oam-destination-address |
ldp-oam-bfd-session-state | ldp-oam-lsp-ping-state | ldp-oam-nexthop-address |
ldp-oam-interface-name | ldp-oam-nexthop-lsp)*>

<!ELEMENT ldp-oam-bfd-session-state (#PCDATA)>

<!ELEMENT ldp-oam-destination-address (#PCDATA)>

<!ELEMENT ldp-oam-information (ldp-oam-status)*>

<!ELEMENT ldp-oam-interface-name (#PCDATA)>

<!ELEMENT ldp-oam-lsp-ping-state (#PCDATA)>

<!ELEMENT ldp-oam-nexthop-address (#PCDATA)>

<!ELEMENT ldp-oam-nexthop-lsp (#PCDATA)>
```

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<!ELEMENT ldp-oam-path (ldp-oam-destination-address | ldp-oam-nexthop-address |
ldp-oam-interface-name | ldp-oam-nexthop-lsp | ldp-oam-bfd-session-state |
ldp-oam-lsp-ping-state | ldp-oam-path-address)*>

<!ELEMENT ldp-oam-path-address (#PCDATA)>

<!ELEMENT ldp-oam-prefix (#PCDATA)>

<!ELEMENT ldp-oam-status (ldp-oam-prefix | ldp-oam-time | ldp-oam-path)*>

<!ELEMENT ldp-oam-time (#PCDATA)>
<!ATTLIST ldp-oam-time junos:seconds CDATA #IMPLIED>

<!ELEMENT ldp-outlib-label (#PCDATA)>

<!ELEMENT ldp-outlib-session (#PCDATA)>

<!ELEMENT ldp-path (ldp-outlib-session | ldp-outlib-label | ldp-ingress-label |
ldp-inlib-session | ldp-inlib-label | ldp-egress-label | ldp-path-route | ldp-reference-count |
ldp-route-transit | ldp-global-label | ldp-merged-next-hop)*>

<!ELEMENT ldp-path-information (ldp-path)*>

<!ELEMENT ldp-path-replication (ldp-instance-id | ldp-label |
ldp-path-replication-ingress-selfid | ldp-path-replication-transit-selfid |
ldp-path-replication-state | ldp-reference-count)*>

<!ELEMENT ldp-path-replication-information (ldp-path-replication)*>

<!ELEMENT ldp-path-replication-ingress-selfid (#PCDATA)>

<!ELEMENT ldp-path-replication-state (#PCDATA)>

<!ELEMENT ldp-path-replication-transit-selfid (#PCDATA)>

<!ELEMENT ldp-path-route (ldp-prefix | ldp-route-ingress)*>

<!ELEMENT ldp-prefix (#PCDATA)>

<!ELEMENT ldp-proposed-local-holdtime (#PCDATA)>

<!ELEMENT ldp-proposed-peer-holdtime (#PCDATA)>

<!ELEMENT ldp-reference-count (#PCDATA)>

<!ELEMENT ldp-remaining-time (#PCDATA)>

<!ELEMENT ldp-remote-address (#PCDATA)>

<!ELEMENT ldp-remote-helper-mode (#PCDATA)>

<!ELEMENT ldp-remote-reconnect-time (#PCDATA)>

<!ELEMENT ldp-restart-complete-time (#PCDATA)>

<!ELEMENT ldp-retry-interval (#PCDATA)>
```

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<!ELEMENT ldp-retry-time (#PCDATA)>

<!ELEMENT ldp-route (ldp-prefix | ldp-nexthop | ldp-label | ldp-no-label |
ldp-topology-entry | ldp-ingress-route-status | ldp-ingress-route-last-modified-time |
ldp-merged-next-hop | ldp-oam-bfd-session)*>

<!ELEMENT ldp-route-information (ldp-route)*>

<!ELEMENT ldp-route-ingress EMPTY>

<!ELEMENT ldp-route-transit EMPTY>

<!ELEMENT ldp-session (ldp-neighbor-address | ldp-session-state | ldp-connection-state
| ldp-remaining-time | ldp-session-id | ldp-retry-time | ldp-keepalive-time | ldp-session-role
| ldp-session-max-pdu | ldp-holdtime | ldp-neighbor-count | ldp-neighbor-types |
ldp-keepalive-interval | ldp-retry-interval | ldp-local-address | ldp-remote-address |
ldp-graceful-restart-state | ldp-local-reconnect-time | ldp-remote-reconnect-time |
ldp-restart-complete-time | ldp-helper-mode-state | ldp-helper-mode-time |
ldp-local-helper-mode | ldp-remote-helper-mode | ldp-graceful-restart-local |
ldp-graceful-restart-remote | ldp-local-maximum-reconnect | ldp-local-maximum-recovery |
ldp-up-time | ldp-last-down-time | ldp-down-reason | ldp-session-flap-count |
ldp-session-protection | ldp-session-nsr-state | ldp-session-address |
ldp-session-deleted | ldp-session-connect-pending | ldp-session-close-pending |
ldp-session-queue-depth | ldp-session-read-pending | ldp-session-write-pending |
ldp-session-receive-buffer-bytes | ldp-session-transmit-buffer-bytes |
ldp-session-no-connection | ldp-session-authentication | ldp-session-statistics)*>

<!ELEMENT ldp-session-address (interface-address | interface-name |
ldp-session-address-stale)*>

<!ELEMENT ldp-session-address-stale EMPTY>

<!ELEMENT ldp-session-authentication (#PCDATA)>

<!ELEMENT ldp-session-close-pending EMPTY>

<!ELEMENT ldp-session-connect-pending EMPTY>

<!ELEMENT ldp-session-deleted EMPTY>

<!ELEMENT ldp-session-flap-count (#PCDATA)>

<!ELEMENT ldp-session-id (#PCDATA)>

<!ELEMENT ldp-session-information (ldp-session)*>
<!ATTLIST ldp-session-information junos:style CDATA #IMPLIED>

<!ELEMENT ldp-session-max-pdu (#PCDATA)>

<!ELEMENT ldp-session-no-connection EMPTY>

<!ELEMENT ldp-session-nsr-state (#PCDATA)>

<!ELEMENT ldp-session-protection (ldp-session-protection-state |
ldp-session-protection-remaining-time)*>

<!ELEMENT ldp-session-protection-remaining-time (#PCDATA)>
```

<!ELEMENT ldp-session-protection-state (#PCDATA)>

<!ELEMENT ldp-session-queue-depth (#PCDATA)>

<!ELEMENT ldp-session-read-pending EMPTY>

<!ELEMENT ldp-session-receive-buffer-bytes (#PCDATA)>

<!ELEMENT ldp-session-replication (ldp-instance-id | ldp-neighbor-address |
ldp-session-replication-state | ldp-reference-count | ldp-session-replication-age)*>

<!ELEMENT ldp-session-replication-age (#PCDATA)>

<!ELEMENT ldp-session-replication-information (ldp-session-replication)*>

<!ELEMENT ldp-session-replication-state (#PCDATA)>

<!ELEMENT ldp-session-role (#PCDATA)>

<!ELEMENT ldp-session-state (#PCDATA)>

<!ELEMENT ldp-session-statistics (ldp-message-type | ldp-messages-sent |
ldp-messages-received | ldp-messages-sent-5seconds |
ldp-messages-received-5seconds)*>

<!ELEMENT ldp-session-transmit-buffer-bytes (#PCDATA)>

<!ELEMENT ldp-session-write-pending EMPTY>

<!ELEMENT ldp-standby-path (ldp-reference-count | ldp-label | ldp-standby-path-prefix)*>

<!ELEMENT ldp-standby-path-information (ldp-standby-path)*>

<!ELEMENT ldp-standby-path-prefix (ldp-prefix | ldp-reference-count)*>

<!ELEMENT ldp-standby-path-reference (ldp-reference-count | ldp-label)*>

<!ELEMENT ldp-standby-route (ldp-prefix | ldp-standby-route-route |
ldp-standby-path-reference)*>

<!ELEMENT ldp-standby-route-information (ldp-standby-route)*>

<!ELEMENT ldp-standby-route-route EMPTY>

<!ELEMENT ldp-statistics (ldp-message-statistics | ldp-event-statistics)*>

<!ELEMENT ldp-statistics-information (ldp-statistics)*>

<!ELEMENT ldp-topology-entry (#PCDATA)>

<!ELEMENT ldp-traffic-error (#PCDATA)>

<!ELEMENT ldp-traffic-multiple-fec (#PCDATA)>

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<!ELEMENT ldp-traffic-statistics (ldp-prefix | ldp-traffic-type | ldp-traffic-error |
ldp-traffic-statistics-packet-count | ldp-traffic-statistics-byte-count |
ldp-traffic-multiple-fec)*>

<!ELEMENT ldp-traffic-statistics-byte-count (#PCDATA)>

<!ELEMENT ldp-traffic-statistics-error (ldp-traffic-error)*>

<!ELEMENT ldp-traffic-statistics-information (ldp-traffic-statistics |
ldp-traffic-statistics-error)*>

<!ELEMENT ldp-traffic-statistics-packet-count (#PCDATA)>

<!ELEMENT ldp-traffic-type (#PCDATA)>

<!ELEMENT ldp-transit-filter (#PCDATA)>

<!ELEMENT ldp-transit-filterid (#PCDATA)>

<!ELEMENT ldp-transport-address (#PCDATA)>

<!ELEMENT ldp-up-time (#PCDATA)>
<!ATTLIST ldp-up-time junos:seconds CDATA #IMPLIED>

<!ELEMENT ldp-vpls-reference-site (vpls-signaling-protocol-identifier | local-site-id |
remote-site-id | vpls-id | num-local-interfaces | num-local-interfaces-up | irb-present |
mesh-group-count | mesh-group-up-count | mesh-group-interfaces | interface |
connection | mesh-group-connection | connections-summary)*>

<!ELEMENT learned-from (#PCDATA)>

<!ELEMENT length (#PCDATA)>

<!ELEMENT level (#PCDATA)>

<!ELEMENT level-one-version (#PCDATA)>

<!ELEMENT level-two-version (#PCDATA)>

<!ELEMENT limit-action (#PCDATA)>

<!ELEMENT link-count (#PCDATA)>

<!ELEMENT link-data (#PCDATA)>

<!ELEMENT link-id (#PCDATA)>

<!ELEMENT link-intf-id (#PCDATA)>

<!ELEMENT link-local-te-tlv-type-name (#PCDATA)>

<!ELEMENT link-metric (#PCDATA)>

<!ELEMENT link-type-name (#PCDATA)>

<!ELEMENT link-type-value (#PCDATA)>
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<!ELEMENT linklocal-address (#PCDATA)>

<!ELEMENT lm-allocated-bandwidth (#PCDATA)>

<!ELEMENT lm-allocated-lsp-name (#PCDATA)>

<!ELEMENT lm-avail-bandwidth (#PCDATA)>

<!ELEMENT lm-bad-version (#PCDATA)>

<!ELEMENT lm-control-channel (#PCDATA)>

<!ELEMENT lm-control-channel-info (lm-control-channel | lm-control-channel-state)*>

<!ELEMENT lm-control-channel-state (#PCDATA)>

<!ELEMENT lm-encoding (#PCDATA)>

<!ELEMENT lm-information (lm-peer-root-information | lm-te-link-root-information | lm-resource-root-information)*>

<!ELEMENT lm-input-statistics (lm-received-packets | lm-received-bad-packets | lm-received-misordered-packets | lm-small-packets | lm-bad-version | lm-no-peer | lm-no-cc | lm-wrong-state | lm-stale-ack | lm-stale-nack)*>

<!ELEMENT lm-lmp-control-channel-flags (cc-restarting)*>

<!ELEMENT lm-lmp-control-channel-local-id (#PCDATA)>

<!ELEMENT lm-lmp-control-channel-rcv-seq-num (#PCDATA)>

<!ELEMENT lm-lmp-control-channel-received-message-id (#PCDATA)>

<!ELEMENT lm-lmp-control-channel-remote-id (#PCDATA)>

<!ELEMENT lm-lmp-control-channel-sent-message-id (#PCDATA)>

<!ELEMENT lm-lmp-control-channel-state (#PCDATA)>

<!ELEMENT lm-lmp-control-channel-tx-seq-num (#PCDATA)>

<!ELEMENT lm-local-address (#PCDATA)>

<!ELEMENT lm-local-id (#PCDATA)>

<!ELEMENT lm-local-label (#PCDATA)>

<!ELEMENT lm-max-bandwidth (#PCDATA)>

<!ELEMENT lm-min-bandwidth (#PCDATA)>

<!ELEMENT lm-no-cc (#PCDATA)>

<!ELEMENT lm-no-peer (#PCDATA)>

<!ELEMENT lm-output-statistics (lm-sent-packets | lm-retransmit-packets | lm-tossed-packets)*>

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<!ELEMENT lm-packet-count (#PCDATA)>

<!ELEMENT lm-packet-type (#PCDATA)>

<!ELEMENT lm-peer-control-address (#PCDATA)>

<!ELEMENT lm-peer-control-channels (lm-control-channel-info)*>

<!ELEMENT lm-peer-hello-dead-interval (#PCDATA)>

<!ELEMENT lm-peer-hello-interval (#PCDATA)>

<!ELEMENT lm-peer-information (lm-source | lm-sys-id | lm-peer-name | lm-state |
lm-peer-control-address | lm-peer-hello-interval | lm-peer-hello-dead-interval |
lm-peer-received-message-id | lm-peer-sent-message-id | lm-peer-control-channels |
lm-peer-lmp-control-channels | lm-peer-te-links)*>

<!ELEMENT lm-peer-lmp-control-channel-information (lm-lmp-control-channel-local-id |
lm-lmp-control-channel-remote-id | lm-lmp-control-channel-state |
lm-lmp-control-channel-flags | lm-lmp-control-channel-received-message-id |
lm-lmp-control-channel-sent-message-id | lm-lmp-control-channel-rcv-seq-num |
lm-lmp-control-channel-tx-seq-num)*>

<!ELEMENT lm-peer-lmp-control-channels (lm-peer-lmp-control-channel-information)*>

<!ELEMENT lm-peer-name (#PCDATA)>

<!ELEMENT lm-peer-received-message-id (#PCDATA)>

<!ELEMENT lm-peer-root-information (lm-peer-information)*>

<!ELEMENT lm-peer-sent-message-id (#PCDATA)>

<!ELEMENT lm-peer-statistics (lm-peer-name | lm-input-statistics |
lm-output-statistics)*>

<!ELEMENT lm-peer-te-link (#PCDATA)>

<!ELEMENT lm-peer-te-link-information (lm-peer-te-link)*>

<!ELEMENT lm-peer-te-links (lm-peer-te-link-information)*>

<!ELEMENT lm-received-bad-packets (lm-packet-type | lm-packet-count)*>

<!ELEMENT lm-received-misordered-packets (lm-packet-type | lm-packet-count)*>

<!ELEMENT lm-received-packets (lm-packet-type | lm-packet-count)*>

<!ELEMENT lm-remote-address (#PCDATA)>

<!ELEMENT lm-remote-id (#PCDATA)>

<!ELEMENT lm-remote-label (#PCDATA)>
```

<!ELEMENT lm-resource (lm-resource-name | lm-resource-type | lm-resource-state | lm-sys-id | lm-resource-max-allocations | lm-resource-bandwidth | lm-resource-traffic-params)*>

<!ELEMENT lm-resource-allocation-context (lm-allocated-bandwidth | lm-allocated-lsp-name | lm-local-label | lm-remote-label)*>

<!ELEMENT lm-resource-avail-bandwidth (#PCDATA)>

<!ELEMENT lm-resource-bandwidth (#PCDATA)>

<!ELEMENT lm-resource-flags (#PCDATA)>

<!ELEMENT lm-resource-in-use (#PCDATA)>

<!ELEMENT lm-resource-local-addr (#PCDATA)>

<!ELEMENT lm-resource-local-id (#PCDATA)>

<!ELEMENT lm-resource-lsp-name (#PCDATA)>

<!ELEMENT lm-resource-max-allocations (#PCDATA)>

<!ELEMENT lm-resource-name (#PCDATA)>

<!ELEMENT lm-resource-num-allocations (#PCDATA)>

<!ELEMENT lm-resource-remote-addr (#PCDATA)>

<!ELEMENT lm-resource-remote-id (#PCDATA)>

<!ELEMENT lm-resource-root-information (lm-source | lm-resource)*>

<!ELEMENT lm-resource-state (#PCDATA)>

<!ELEMENT lm-resource-traffic-params (#PCDATA)>

<!ELEMENT lm-resource-type (#PCDATA)>

<!ELEMENT lm-retransmit-packets (lm-packet-type | lm-packet-count)*>

<!ELEMENT lm-sent-packets (lm-packet-type | lm-packet-count)*>

<!ELEMENT lm-small-packets (#PCDATA)>

<!ELEMENT lm-source (#PCDATA)>

<!ELEMENT lm-stale-ack (#PCDATA)>

<!ELEMENT lm-stale-nack (#PCDATA)>

<!ELEMENT lm-state (#PCDATA)>

<!ELEMENT lm-statistics-information (lm-peer-statistics)*>

<!ELEMENT lm-switching (#PCDATA)>

```
<!ELEMENT lm-sys-id (#PCDATA)>

<!ELEMENT lm-te-link-flags (#PCDATA)>

<!ELEMENT lm-te-link-information (lm-te-link-name | lm-local-id | lm-remote-id | lm-state |
lm-te-link-flags | lm-te-link-local-flags | lm-local-address | lm-remote-address |
lm-encoding | lm-switching | lm-min-bandwidth | lm-max-bandwidth | lm-total-bandwidth |
lm-avail-bandwidth | lm-te-link-resources)*>

<!ELEMENT lm-te-link-local-flags (lm-te-link-nack-sent-flag)*>

<!ELEMENT lm-te-link-nack-sent-flag EMPTY>

<!ELEMENT lm-te-link-name (#PCDATA)>

<!ELEMENT lm-te-link-resource (lm-resource-name | lm-resource-type | lm-sys-id |
lm-resource-state | lm-resource-flags | lm-resource-local-id | lm-resource-remote-id |
lm-resource-local-addr | lm-resource-remote-addr | lm-resource-bandwidth |
lm-resource-avail-bandwidth | lm-resource-traffic-params | lm-resource-max-allocations |
lm-resource-num-allocations | lm-resource-in-use | lm-resource-lsp-name |
lm-resource-allocation-context)*>
<!ATTLIST lm-te-link-resource junos:style CDATA #IMPLIED>

<!ELEMENT lm-te-link-resources (lm-te-link-resource)*>

<!ELEMENT lm-te-link-root-information (lm-te-link-information)*>

<!ELEMENT lm-tossed-packets (lm-packet-type | lm-packet-count)*>

<!ELEMENT lm-total-bandwidth (#PCDATA)>

<!ELEMENT lm-wrong-state (#PCDATA)>

<!ELEMENT load-balance (#PCDATA)>

<!ELEMENT local-address (#PCDATA)>

<!ELEMENT local-as (#PCDATA)>

<!ELEMENT local-as-private EMPTY>

<!ELEMENT local-asn (asn | as-loops)*>

<!ELEMENT local-id (#PCDATA)>

<!ELEMENT local-ifindex (#PCDATA)>

<!ELEMENT local-interface (interface-name | interface-status | interface-encapsulation |
working-status | profile-name | interface-description)*>

<!ELEMENT local-interface-index (#PCDATA)>

<!ELEMENT local-interface-name (#PCDATA)>

<!ELEMENT local-pe-address (#PCDATA)>

<!ELEMENT local-preference (#PCDATA)>
```

<!ELEMENT local-priority (#PCDATA)>

<!ELEMENT local-rp EMPTY>

<!ELEMENT local-site-id (#PCDATA)>

<!ELEMENT local-source EMPTY>

<!ELEMENT local-system-as (#PCDATA)>

<!ELEMENT log (#PCDATA)>

<!ELEMENT log-element (timestamp | ospf-log-type | elapsed-time)*>

<!ELEMENT log-event (#PCDATA)>

<!ELEMENT log-time-stamp (#PCDATA)>

<!ELEMENT logging-reason (#PCDATA)>

<!ELEMENT loopback-address (#PCDATA)>

<!ELEMENT lp-failure (#PCDATA)>

<!ELEMENT lp-granted (#PCDATA)>

<!ELEMENT lp-history (sequence-number | time | log | route)*>

<!ELEMENT lp-requested (#PCDATA)>

<!ELEMENT lp-status (#PCDATA)>

<!ELEMENT lsa-change-count (#PCDATA)>

<!ELEMENT lsa-changed-time (#PCDATA)>

<!ELEMENT lsa-id (#PCDATA)>

<!ELEMENT lsa-length (#PCDATA)>

<!ELEMENT lsa-list (#PCDATA)>

<!ELEMENT lsa-type (#PCDATA)>

<!ELEMENT lsas-acknowledged (#PCDATA)>

<!ELEMENT lsas-acknowledged-5seconds (#PCDATA)>

<!ELEMENT lsas-flooded (#PCDATA)>

<!ELEMENT lsas-flooded-5seconds (#PCDATA)>

<!ELEMENT lsas-high-prio-flooded (#PCDATA)>

<!ELEMENT lsas-high-prio-flooded-5seconds (#PCDATA)>

```
<!ELEMENT lsas-nbr-transmit (#PCDATA)>

<!ELEMENT lsas-nbr-transmit-5seconds (#PCDATA)>

<!ELEMENT lsas-requested (#PCDATA)>

<!ELEMENT lsas-requested-5seconds (#PCDATA)>

<!ELEMENT lsas-retransmit (#PCDATA)>

<!ELEMENT lsas-retransmit-5seconds (#PCDATA)>

<!ELEMENT lsdb-expiration-time (#PCDATA)>

<!ELEMENT lsdb-timer-type (#PCDATA)>

<!ELEMENT lsp-addr (#PCDATA)>

<!ELEMENT lsp-aggregation (#PCDATA)>

<!ELEMENT lsp-attributes (#PCDATA)>

<!ELEMENT lsp-bandwidth (#PCDATA)>

<!ELEMENT lsp-count (#PCDATA)>

<!ELEMENT lsp-creation-time (#PCDATA)>

<!ELEMENT lsp-description (#PCDATA)>

<!ELEMENT lsp-diffserv-info (#PCDATA)>

<!ELEMENT lsp-diffserv-te-info (#PCDATA)>

<!ELEMENT lsp-flags (#PCDATA)>

<!ELEMENT lsp-hold-priority (#PCDATA)>

<!ELEMENT lsp-hoplimit (#PCDATA)>

<!ELEMENT lsp-id (#PCDATA)>

<!ELEMENT lsp-interval (#PCDATA)>

<!ELEMENT lsp-last-change (#PCDATA)>
<!ATTLIST lsp-last-change junos:seconds CDATA #IMPLIED>

<!ELEMENT lsp-length (#PCDATA)>

<!ELEMENT lsp-name (#PCDATA)>

<!ELEMENT lsp-no-ldp-tunneling EMPTY>

<!ELEMENT lsp-path-count (#PCDATA)>

<!ELEMENT lsp-path-type (#PCDATA)>
```

<!ELEMENT lsp-pktbytes (#PCDATA)>

<!ELEMENT lsp-queue-drops (#PCDATA)>

<!ELEMENT lsp-queue-length (#PCDATA)>

<!ELEMENT lsp-refcount (#PCDATA)>

<!ELEMENT lsp-retry-timer (#PCDATA)>

<!ELEMENT lsp-setup-priority (#PCDATA)>

<!ELEMENT lsp-soft-preemption-counter (#PCDATA)>

<!ELEMENT lsp-soft-preemption-time (#PCDATA)>

<!ELEMENT lsp-state (#PCDATA)>

<!ELEMENT lsp-status (#PCDATA)>

<!ELEMENT lsp-stub EMPTY>

<!ELEMENT lsp-to-pe-up (#PCDATA)>

<!ELEMENT lsps-regenerated (#PCDATA)>

<!ELEMENT lsreq-active EMPTY>

<!ELEMENT lsreq-enqueued EMPTY>

<!ELEMENT lsreq-retransmit-time (#PCDATA)>

<!ELEMENT lsw-interface-name (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT mac-limit (#PCDATA)>

<!ELEMENT master-slave (#PCDATA)>

<!ELEMENT max-available-bandwidth (#PCDATA)>

<!ELEMENT max-available-description (#PCDATA)>

<!ELEMENT max-bandwidth (#PCDATA)>

<!ELEMENT max-reserve-bandwidth (#PCDATA)>

<!ELEMENT max-run (#PCDATA)>

<!ELEMENT maximum (#PCDATA)>

<!ELEMENT maximum-area (#PCDATA)>

<!ELEMENT maximum-bandwidth (#PCDATA)>

<!ELEMENT maximum-helper-recovery-time (#PCDATA)>

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<!ELEMENT maximum-helper-restart-time (#PCDATA)>
<!ELEMENT maximum-lsp-bw0 (#PCDATA)>
<!ELEMENT maximum-lsp-bw1 (#PCDATA)>
<!ELEMENT maximum-lsp-bw2 (#PCDATA)>
<!ELEMENT maximum-lsp-bw3 (#PCDATA)>
<!ELEMENT maximum-lsp-bw4 (#PCDATA)>
<!ELEMENT maximum-lsp-bw5 (#PCDATA)>
<!ELEMENT maximum-lsp-bw6 (#PCDATA)>
<!ELEMENT maximum-lsp-bw7 (#PCDATA)>
<!ELEMENT mc-global-resolves-no-route (#PCDATA)>
<!ELEMENT mc-groups-no-mc-interface (#PCDATA)>
<!ELEMENT mc-input-kbytes (#PCDATA)>
<!ELEMENT mc-input-packets (#PCDATA)>
<!ELEMENT mc-mismatch-errors (#PCDATA)>
<!ELEMENT mc-mismatches (#PCDATA)>
<!ELEMENT mc-mismatches-no-mc-interface (#PCDATA)>
<!ELEMENT mc-mismatches-no-route (#PCDATA)>
<!ELEMENT mc-notifies-no-mc-interface (#PCDATA)>
<!ELEMENT mc-notifies-no-route (#PCDATA)>
<!ELEMENT mc-output-kbytes (#PCDATA)>
<!ELEMENT mc-output-packets (#PCDATA)>
<!ELEMENT mc-resolve-errors (#PCDATA)>
<!ELEMENT mc-resolves (#PCDATA)>
<!ELEMENT mc-resolves-filtered (#PCDATA)>
<!ELEMENT mc-resolves-no-mc-interface (#PCDATA)>
<!ELEMENT mc-resolves-no-route (#PCDATA)>
<!ELEMENT mc-routing-notifies (#PCDATA)>
<!ELEMENT mc-routing-notifies-filtered (#PCDATA)>
```

<!ELEMENT mc-stats-interface (interface-name | protocol-name | mc-mismatch-errors | mc-mismatches | mc-mismatches-no-route | mc-resolves | mc-routing-notifies | mc-resolves-no-route | mc-resolve-errors | mc-resolves-filtered | mc-routing-notifies-filtered | mc-input-kbytes | mc-input-packets | mc-output-kbytes | mc-output-packets)*>

<!ELEMENT mdt-active-tunnel (mdt-customer-source-address | mdt-customer-group-address | mdt-provider-group-address | mdt-tunnel-interface-name | mdt-forwarding-rate-kilobits | mdt-forwarding-rate-kilobytes | mdt-configured-threshold-rate | mdt-tunnel-uptime | mdt-default-tunnel-information)*>

<!ELEMENT mdt-configured-threshold-rate (#PCDATA)>

<!ELEMENT mdt-customer-group-address (#PCDATA)>

<!ELEMENT mdt-customer-source-address (#PCDATA)>

<!ELEMENT mdt-default-group-address (#PCDATA)>

<!ELEMENT mdt-default-interface-name (#PCDATA)>

<!ELEMENT mdt-default-source-address (#PCDATA)>

<!ELEMENT mdt-default-tunnel-information (#PCDATA)>

<!ELEMENT mdt-forwarding-rate-kilobits (#PCDATA)>

<!ELEMENT mdt-forwarding-rate-kilobytes (#PCDATA)>

<!ELEMENT mdt-pim-instance (#PCDATA)>

<!ELEMENT mdt-provider-group-address (#PCDATA)>

<!ELEMENT mdt-tunnel-direction (#PCDATA)>

<!ELEMENT mdt-tunnel-interface-name (#PCDATA)>

<!ELEMENT mdt-tunnel-mode (#PCDATA)>

<!ELEMENT mdt-tunnel-uptime (#PCDATA)>
<!ATTLIST mdt-tunnel-uptime junos:seconds CDATA #IMPLIED>

<!ELEMENT med (#PCDATA)>

<!ELEMENT med-action (#PCDATA)>

<!ELEMENT med-plus-igp (#PCDATA)>

<!ELEMENT membership-timeout (#PCDATA)>

<!ELEMENT merit (#PCDATA)>

<!ELEMENT mesh-group (#PCDATA)>

<!ELEMENT mesh-group-connection (mesh-group-name | connection | connections-summary)*>

```
<!ELEMENT mesh-group-count (#PCDATA)>

<!ELEMENT mesh-group-id (#PCDATA)>

<!ELEMENT mesh-group-interfaces (mesh-group-name | mesh-group-id |
mesh-group-state | interface)*>

<!ELEMENT mesh-group-name (#PCDATA)>

<!ELEMENT mesh-group-state (#PCDATA)>

<!ELEMENT mesh-group-up-count (#PCDATA)>

<!ELEMENT message (#PCDATA)>

<!ELEMENT message-statistics (rsvp-message | messages-sent | messages-received |
messages-sent-5seconds | messages-received-5seconds)*>

<!ELEMENT messages-received (#PCDATA)>

<!ELEMENT messages-received-5seconds (#PCDATA)>

<!ELEMENT messages-sent (#PCDATA)>

<!ELEMENT messages-sent-5seconds (#PCDATA)>

<!ELEMENT metric (#PCDATA)>

<!ELEMENT metric-flag (#PCDATA)>

<!ELEMENT metric-one (#PCDATA)>

<!ELEMENT metric-out (#PCDATA)>

<!ELEMENT metric-two (#PCDATA)>

<!ELEMENT metric-type (#PCDATA)>

<!ELEMENT metric2 (#PCDATA)>

<!ELEMENT mgm-configured-parameters (query-interval | query-response-interval |
last-member-query-interval | robustness-count)*>
<!ATTLIST mgm-configured-parameters junos:style CDATA #IMPLIED>

<!ELEMENT mgm-derived-parameters (membership-timeout | query-other-timeout)*>
<!ATTLIST mgm-derived-parameters junos:style CDATA #IMPLIED>

<!ELEMENT mgm-disabled-interface-name (#PCDATA)>

<!ELEMENT mgm-group (multicast-group-address | multicast-source-address |
mgm-source-timeout | last-address | mgm-timeout | mgm-type | mgm-group-mode-type |
host-record | reverse-oif | mgm-group-output-interface | mgm-output-interface-status)*>
<!ATTLIST mgm-group junos:style CDATA #IMPLIED>

<!ELEMENT mgm-group-count (#PCDATA)>

<!ELEMENT mgm-group-input-interface (#PCDATA)>
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<!ELEMENT mgm-group-mode-type (#PCDATA)>

<!ELEMENT mgm-group-output-interface (#PCDATA)>

<!ELEMENT mgm-group-policy (#PCDATA)>

<!ELEMENT mgm-host (mgm-host-address | mgm-host-record-count)*>
<!ATTLIST mgm-host junos:style CDATA #IMPLIED>

<!ELEMENT mgm-host-address (#PCDATA)>

<!ELEMENT mgm-host-record-count (#PCDATA)>

<!ELEMENT mgm-immediate-leave (#PCDATA)>

<!ELEMENT mgm-interface (interface-name | querier-address | mgm-interface-state |
querier-timeout | mgm-interface-version | mgm-group-count | mgm-ssm-map |
mgm-immediate-leave | mgm-promiscuous-mode | mgm-passive |
mgm-passive-allow-receive | mgm-passive-send-general-query |
mgm-passive-send-group-query | mgm-group-policy | mgm-oif-map | mgm-host)*>

<!ELEMENT mgm-interface-all EMPTY>

<!ELEMENT mgm-interface-groups (interface-name | mgm-group)*>

<!ELEMENT mgm-interface-output-groups (interface-name | mgm-output-interface-status
| mgm-output-group)*>

<!ELEMENT mgm-interface-state (#PCDATA)>

<!ELEMENT mgm-interface-version (#PCDATA)>

<!ELEMENT mgm-oif-map (#PCDATA)>

<!ELEMENT mgm-other-statistic (statistic-name | statistic-count)*>
<!ATTLIST mgm-other-statistic junos:style CDATA #IMPLIED>

<!ELEMENT mgm-output-group (multicast-group-address | multicast-source-address |
mgm-type | mgm-group-mode-type | mgm-group-input-interface)*>
<!ATTLIST mgm-output-group junos:style CDATA #IMPLIED>

<!ELEMENT mgm-output-interface-status (#PCDATA)>

<!ELEMENT mgm-passive (#PCDATA)>

<!ELEMENT mgm-passive-allow-receive EMPTY>

<!ELEMENT mgm-passive-send-general-query EMPTY>

<!ELEMENT mgm-passive-send-group-query EMPTY>

<!ELEMENT mgm-promiscuous-mode (#PCDATA)>

<!ELEMENT mgm-source-timeout (#PCDATA)>

<!ELEMENT mgm-ssm-map (#PCDATA)>
```

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<!ELEMENT mgm-statistic (statistic-name | received-count | sent-count | error-count)*>
<!ATTLIST mgm-statistic junos:style CDATA #IMPLIED>

<!ELEMENT mgm-statistics-all (mgm-statistics-group | mgm-statistics-other |
mgm-statistics-global)*>

<!ELEMENT mgm-statistics-global (mgm-other-statistic)*>

<!ELEMENT mgm-statistics-group (mgm-statistic)*>

<!ELEMENT mgm-statistics-interface (interface-name | mgm-disabled-interface-name |
mgm-interface-all | mgm-statistics-group | mgm-statistics-other | mgm-statistics-global |
mgm-statistic | mgm-other-statistic)*>
<!ATTLIST mgm-statistics-interface junos:style CDATA #IMPLIED>

<!ELEMENT mgm-statistics-other (mgm-other-statistic)*>

<!ELEMENT mgm-timeout (#PCDATA)>

<!ELEMENT mgm-type (#PCDATA)>

<!ELEMENT minimum-bandwidth (#PCDATA)>

<!ELEMENT minimum-lsp-bw (#PCDATA)>

<!ELEMENT mld-group-information (mgm-interface-groups)*>

<!ELEMENT mld-hosts-information (mgm-disabled-interface-name | mgm-interface)*>

<!ELEMENT mld-interface-information (mgm-interface | mgm-configured-parameters |
mgm-derived-parameters)*>

<!ELEMENT mld-output-group-information (mgm-interface-output-groups)*>

<!ELEMENT mld-statistics-information (mgm-statistics-interface | mgm-statistics-other |
mgm-statistics-global | mgm-statistics-all)*>

<!ELEMENT monitor-lsp-bandwidth EMPTY>

<!ELEMENT mpls-admin-group (admin-group-name | index)*>

<!ELEMENT mpls-admin-group-information (mpls-admin-group)*>

<!ELEMENT mpls-call-admission-control (mpls-lsp)*>

<!ELEMENT mpls-call-admission-control-information (mpls-call-admission-control)*>

<!ELEMENT mpls-cspf (cspf-queue | cspf-paths | cspf-timing)*>
<!ATTLIST mpls-cspf heading CDATA #IMPLIED>

<!ELEMENT mpls-cspf-information (mpls-cspf)*>

<!ELEMENT mpls-diffserv-te-information (bandwidth-model | te-class-map)*>

<!ELEMENT mpls-error (mpls-error-msg)*>
```

<!ELEMENT mpls-error-msg (#PCDATA)>

<!ELEMENT mpls-interface (interface-name | mpls-interface-state | no-group-flag | admin-group-name | admin-group-number)*>

<!ELEMENT mpls-interface-information (mpls-interface)*>

<!ELEMENT mpls-interface-state (#PCDATA)>

<!ELEMENT mpls-label (#PCDATA)>

<!ELEMENT mpls-lsp (destination-address | source-address | lsp-state | route-count | active-path | is-primary | name | bidirectional | lsp-description | lsp-pktbytes | no-statistics | mpls-p2mp-name | is-fastreroute | is-linkprotection | is-nodeprotection | requires-intra-domain-path | load-balance | lsp-diffserv-te-info | metric | revert-timer | revert-timer-remain | optimize-protection-timer | admin-groups | lsp-creation-time | lsp-soft-preemption-counter | lsp-soft-preemption-time | retry-timer | retry-limit | mpls-lsp-autobandwidth | mpls-lsp-path | mpls-lsp-attributes)*>

<!ELEMENT mpls-lsp-attributes (signal-type | encoding-type | switching-type | gpid | protection-type)*>

<!ELEMENT mpls-lsp-autobandwidth (monitor-lsp-bandwidth | minimum-bandwidth | maximum-bandwidth | adjust-timer | bandwidth | time-to-adjust | adjust-threshold | overflow-limit | overflow-sample-count)*>

<!ELEMENT mpls-lsp-defaults (lsp-setup-priority | lsp-hold-priority | lsp-retry-timer | lsp-hoplimit | lsp-bandwidth)*>

<!ELEMENT mpls-lsp-defaults-information (mpls-lsp-defaults)*>

<!ELEMENT mpls-lsp-information (rsvp-session-data)*>

<!ELEMENT mpls-lsp-path (path-active | title | name | path-state | cos | no-decrement-ttl | preference | path-soft-preemption-pending | setup-priority | hold-priority | bandwidth | actual-bandwidth | per-class-bandwidth-heading | bandwidth_ct0 | bandwidth_ct1 | bandwidth_ct2 | bandwidth_ct3 | path-adaptive | path-no-recordroute | hoplimit | optimize-timer | smart-optimize-timer | admin-groups | retry-timer | retry-limit | cspf-status | explicit-route | received-rro | oam-state | path-history | path-available-bandwidth | layer2-connection)*>

<!ELEMENT mpls-mirror-oam-address (#PCDATA)>

<!ELEMENT mpls-mirror-oam-local-bfd-disc (#PCDATA)>

<!ELEMENT mpls-mirror-oam-mpls-oam-address (#PCDATA)>

<!ELEMENT mpls-mirror-oam-refcount (#PCDATA)>

<!ELEMENT mpls-mirror-oam-remote-bfd-disc (#PCDATA)>

<!ELEMENT mpls-oam-bfd-dest-addr (#PCDATA)>

<!ELEMENT mpls-oam-instance-id (#PCDATA)>

<!ELEMENT mpls-oam-ldp-fec (#PCDATA)>

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<!ELEMENT mpls-oam-ldp-fec-len (#PCDATA)>

<!ELEMENT mpls-oam-ldp-replication (mpls-oam-instance-id | mpls-oam-type |
mpls-oam-ldp-fec | mpls-oam-ldp-fec-len | mpls-oam-bfd-dest-addr |
mpls-mirror-oam-local-bfd-disc | mpls-oam-ldp-source | mpls-mirror-oam-remote-bfd-disc |
mpls-mirror-oam-refcount | mpls-mirror-oam-address |
mpls-mirror-oam-mpls-oam-address)*>

<!ELEMENT mpls-oam-ldp-replication-information (mpls-oam-ldp-replication)*>

<!ELEMENT mpls-oam-ldp-source (#PCDATA)>

<!ELEMENT mpls-oam-type (#PCDATA)>

<!ELEMENT mpls-p2mp-branch-count (#PCDATA)>

<!ELEMENT mpls-p2mp-lsp (mpls-p2mp-name | mpls-p2mp-branch-count)*>

<!ELEMENT mpls-p2mp-lsp-name (#PCDATA)>

<!ELEMENT mpls-p2mp-name (#PCDATA)>

<!ELEMENT mpls-p2mp-restart-database (mpls-p2mp-restart-lsp)*>

<!ELEMENT mpls-p2mp-restart-database-information (mpls-p2mp-restart-database)*>

<!ELEMENT mpls-p2mp-restart-lsp (name | tunnel-id | lsp-id | lsp-flags | subgroup-id |
application-owner | branch-lsp-count | mpls-restart-lsp)*>

<!ELEMENT mpls-path (name | address | path-type | telink-id)*>

<!ELEMENT mpls-path-information (mpls-path)*>

<!ELEMENT mpls-restart-database (mpls-restart-lsp)*>

<!ELEMENT mpls-restart-database-information (mpls-restart-database)*>

<!ELEMENT mpls-restart-lsp (name | destination-address | source-address | lsp-state |
lsp-flags | lsp-path-count | mpls-lsp-attributes | mpls-restart-path)*>

<!ELEMENT mpls-restart-path (lsp-path-type | name | path-standby | path-active |
path-state | lsp-id | tunnel-id | subgroup-id | path-flags | bandwidth |
per-class-bandwidth-heading | bandwidth_ct0 | bandwidth_ct1 | bandwidth_ct2 |
bandwidth_ct3 | explicit-route | mpls-restart-rsvp)*>

<!ELEMENT mpls-restart-rsvp (next-hop | interface-name | telink-name |
upstream-label-in | label-out | self-id | explicit-route)*>

<!ELEMENT mpls-type-control-word (#PCDATA)>

<!ELEMENT mpls-type-icmp-ping (#PCDATA)>

<!ELEMENT mpls-type-lsp-ping (#PCDATA)>

<!ELEMENT mpls-type-pw-label (#PCDATA)>

<!ELEMENT mpls-type-router-alert (#PCDATA)>
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<!ELEMENT msdp-accept EMPTY>

<!ELEMENT msdp-active-source-limit-exceeded (#PCDATA)>

<!ELEMENT msdp-connect-retries (#PCDATA)>

<!ELEMENT msdp-errors-received (#PCDATA)>

<!ELEMENT msdp-filtered EMPTY>

<!ELEMENT msdp-global-active-source-limit-exceeded (#PCDATA)>

<!ELEMENT msdp-group-name (#PCDATA)>

<!ELEMENT msdp-instance (instance-name | msdp-no-routes | msdp-route |
msdp-no-source | msdp-source | msdp-global-active-source-limit-exceeded |
msdp-peer-statistics)*>

<!ELEMENT msdp-keepalives-received (#PCDATA)>

<!ELEMENT msdp-keepalives-sent (#PCDATA)>

<!ELEMENT msdp-local-address (#PCDATA)>

<!ELEMENT msdp-message-received (#PCDATA)>
<!ATTLIST msdp-message-received junos:seconds CDATA #IMPLIED>

<!ELEMENT msdp-message-received-absolute (#PCDATA)>

<!ELEMENT msdp-no-peer (#PCDATA)>

<!ELEMENT msdp-no-peers EMPTY>

<!ELEMENT msdp-no-routes (#PCDATA)>

<!ELEMENT msdp-no-source (#PCDATA)>

<!ELEMENT msdp-originator (#PCDATA)>

<!ELEMENT msdp-peer (msdp-peer-address | msdp-local-address | msdp-state |
msdp-state-change | msdp-group-name | msdp-connect-retries | msdp-state-timeout |
msdp-peer-timeout | msdp-sa-accepted | msdp-sa-received)*>
<!ATTLIST msdp-peer junos:style CDATA #IMPLIED>

<!ELEMENT msdp-peer-address (#PCDATA)>

<!ELEMENT msdp-peer-information (msdp-no-peers | msdp-peer)*>

<!ELEMENT msdp-peer-statistics (msdp-peer-address | msdp-state-change-absolute |
msdp-state-change | msdp-message-received-absolute | msdp-message-received |
msdp-rpf-failures | msdp-remote-closes | msdp-peer-timeouts | msdp-sa-messages-sent
| msdp-sa-messages-received | msdp-sa-requests-sent | msdp-sa-requests-received |
msdp-sa-responses-sent | msdp-sa-responses-received |
msdp-active-source-limit-exceeded | msdp-keepalives-sent | msdp-keepalives-received |
msdp-unknowns-received | msdp-errors-received)*>
```

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<!ELEMENT msdp-peer-timeout (#PCDATA)>

<!ELEMENT msdp-peer-timeouts (#PCDATA)>

<!ELEMENT msdp-reject EMPTY>

<!ELEMENT msdp-remote-closes (#PCDATA)>

<!ELEMENT msdp-route (multicast-group-address | multicast-source-address |
msdp-route-peer)*>

<!ELEMENT msdp-route-peer (msdp-peer-address | msdp-originator |
msdp-route-peer-flags)*>

<!ELEMENT msdp-route-peer-flags (msdp-accept | msdp-reject | msdp-filtered)*>

<!ELEMENT msdp-rpf-failures (#PCDATA)>

<!ELEMENT msdp-sa-accepted (#PCDATA)>

<!ELEMENT msdp-sa-messages-received (#PCDATA)>

<!ELEMENT msdp-sa-messages-sent (#PCDATA)>

<!ELEMENT msdp-sa-received (#PCDATA)>

<!ELEMENT msdp-sa-requests-received (#PCDATA)>

<!ELEMENT msdp-sa-requests-sent (#PCDATA)>

<!ELEMENT msdp-sa-responses-received (#PCDATA)>

<!ELEMENT msdp-sa-responses-sent (#PCDATA)>

<!ELEMENT msdp-source (msdp-source-prefix | msdp-source-prefix-length |
msdp-source-type | msdp-source-limit-maximum | msdp-source-limit-threshold |
msdp-source-limit-exceeded)*>

<!ELEMENT msdp-source-active-information (msdp-instance)*>

<!ELEMENT msdp-source-information (msdp-instance)*>

<!ELEMENT msdp-source-limit-exceeded (#PCDATA)>

<!ELEMENT msdp-source-limit-maximum (#PCDATA)>

<!ELEMENT msdp-source-limit-threshold (#PCDATA)>

<!ELEMENT msdp-source-prefix (#PCDATA)>

<!ELEMENT msdp-source-prefix-length (#PCDATA)>

<!ELEMENT msdp-source-type (#PCDATA)>

<!ELEMENT msdp-state (#PCDATA)>

<!ELEMENT msdp-state-change (#PCDATA)>
```

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<!ATTLIST msdp-state-change junos:seconds CDATA #IMPLIED>

<!ELEMENT msdp-state-change-absolute (#PCDATA)>

<!ELEMENT msdp-state-timeout (#PCDATA)>

<!ELEMENT msdp-statistics-information (msdp-no-peer | msdp-instance)*>

<!ELEMENT msdp-unknowns-received (#PCDATA)>

<!ELEMENT mt-tlv (mtid)*>

<!ELEMENT mtid (#PCDATA)>

<!ELEMENT mtu (#PCDATA)>

<!ELEMENT mtu-mismatch-error (#PCDATA)>

<!ELEMENT multicast-backup-pe-address (#PCDATA)>

<!ELEMENT multicast-backup-pe-address-information (multicast-backup-pe-address |
multicast-backup-pe-group-list | pe-address-local | lsp-to-pe-up)*>
<!ATTLIST multicast-backup-pe-address-information junos:style CDATA #IMPLIED>

<!ELEMENT multicast-backup-pe-group (multicast-backup-pe-group-name |
designated-pe | transitions | last-transition | local-pe-address | backup-pes)*>
<!ATTLIST multicast-backup-pe-group junos:style CDATA #IMPLIED>

<!ELEMENT multicast-backup-pe-group-list (multicast-backup-pe-group-member)*>

<!ELEMENT multicast-backup-pe-group-member (multicast-backup-pe-group-name)*>

<!ELEMENT multicast-backup-pe-group-name (#PCDATA)>

<!ELEMENT multicast-backup-pe-groups (instance-name | multicast-backup-pe-group)*>

<!ELEMENT multicast-backup-pe-groups-information (multicast-backup-pe-groups)*>

<!ELEMENT multicast-byte-count (#PCDATA)>

<!ELEMENT multicast-bytes (#PCDATA)>

<!ELEMENT multicast-flow-map (flow-map-name | policy-name | cache-timeout |
flow-bandwidth | bandwidth-type | redundant-sources)*>
<!ATTLIST multicast-flow-map junos:style CDATA #IMPLIED>

<!ELEMENT multicast-flow-maps (instance-name | multicast-flow-map)*>

<!ELEMENT multicast-flow-maps-information (multicast-flow-maps)*>

<!ELEMENT multicast-group (multicast-group-address | multicast-source-count |
multicast-packet-count | multicast-byte-count | multicast-group-source)*>
<!ATTLIST multicast-group junos:style CDATA #IMPLIED>

<!ELEMENT multicast-group-address (#PCDATA)>

<!ELEMENT multicast-group-count (#PCDATA)>
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<!ELEMENT multicast-group-prefix (#PCDATA)>

<!ELEMENT multicast-group-source (multicast-source-address |
multicast-source-prefix-length | multicast-packet-count | multicast-byte-count)*>
<!ATTLIST multicast-group-source junos:style CDATA #IMPLIED>

<!ELEMENT multicast-interface (interface-name | interface-max-bandwidth |
interface-remaining-bandwidth | interface-local-bandwidth-deduction |
interface-mapped-bandwidth-deduction | interface-reverse-oif-mapping |
interface-reverse-oif-mapping-no-qos-adjust | interface-subscriber-leave-timer |
interface-no-qos-adjust)*>

<!ELEMENT multicast-interface-information (multicast-interface)*>

<!ELEMENT multicast-next-hops-information (next-hops-family)*>

<!ELEMENT multicast-packet-count (#PCDATA)>

<!ELEMENT multicast-packets (#PCDATA)>

<!ELEMENT multicast-pim-to-igmp-proxy (proxy-state | proxy-upstream-interface)*>

<!ELEMENT multicast-pim-to-igmp-proxy-information (multicast-pim-to-igmp-proxy)*>

<!ELEMENT multicast-pim-to-mld-proxy (proxy-state | proxy-upstream-interface)*>

<!ELEMENT multicast-pim-to-mld-proxy-information (multicast-pim-to-mld-proxy)*>

<!ELEMENT multicast-route (multicast-group-address | multicast-source-address |
multicast-route-vlan-id | multicast-route-bridge-domain | multicast-route-mesh-group |
multicast-source-prefix-length | multicast-route-source | session-name |
forwarding-rate-kilobytes | forwarding-rate-packets | forwarded-packet-count |
bandwidth-for-admission-control | upstream-interface-name | rpf-check-disabled |
downstream-interface-names | rejected-downstream-interface-names | next-hop-id |
upstream-protocol | multicast-route-forwarding-state | multicast-route-state |
multicast-route-timeout | interface-mismatch-count)*>
<!ATTLIST multicast-route junos:style CDATA #IMPLIED>

<!ELEMENT multicast-route-bridge-domain (#PCDATA)>

<!ELEMENT multicast-route-count (#PCDATA)>

<!ELEMENT multicast-route-forwarding-state (#PCDATA)>

<!ELEMENT multicast-route-information (multicast-route-no-group-prefix |
multicast-route-no-family | multicast-statistics-timed-out | route-family)*>

<!ELEMENT multicast-route-mesh-group (#PCDATA)>

<!ELEMENT multicast-route-no-family (#PCDATA)>

<!ELEMENT multicast-route-no-group-prefix (#PCDATA)>

<!ELEMENT multicast-route-source (multicast-source-address)*>

<!ELEMENT multicast-route-state (#PCDATA)>
```

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<!ELEMENT multicast-route-timeout (#PCDATA)>

<!ELEMENT multicast-route-type (#PCDATA)>

<!ELEMENT multicast-route-vlan-id (#PCDATA)>

<!ELEMENT multicast-rpf-information (rpf-family)*>

<!ELEMENT multicast-scope (scope-name | address-prefix | interface-name |
scope-rejects | scope-state)*>

<!ELEMENT multicast-scope-information (multicast-scope-policy |
multicast-scope-policy-interfaces | multicast-scope)*>
<!ATTLIST multicast-scope-information junos:style CDATA #IMPLIED>

<!ELEMENT multicast-scope-policy (#PCDATA)>

<!ELEMENT multicast-scope-policy-interface (interface-name | scope-rejects)*>

<!ELEMENT multicast-scope-policy-interfaces (instance-name | address-family |
multicast-scope-policy-interface)*>

<!ELEMENT multicast-session (session-announcement | session-name |
session-version | session-origin | upstream-protocol | session-description | session-uri |
session-email | session-phone | session-connection-data | session-bandwidth |
session-start-time | session-stop-time | session-encryption-key | session-attribute |
session-media)*>
<!ATTLIST multicast-session junos:style CDATA #IMPLIED>

<!ELEMENT multicast-session-count (#PCDATA)>

<!ELEMENT multicast-sessions-information (multicast-session |
multicast-session-count | multicast-sessions-type)*>

<!ELEMENT multicast-sessions-type (#PCDATA)>

<!ELEMENT multicast-source (multicast-source-address | multicast-source-prefix-length
| multicast-group-count | multicast-packet-count | multicast-byte-count |
multicast-source-group)*>
<!ATTLIST multicast-source junos:style CDATA #IMPLIED>

<!ELEMENT multicast-source-address (#PCDATA)>

<!ELEMENT multicast-source-count (#PCDATA)>

<!ELEMENT multicast-source-group (multicast-group-address | multicast-packet-count |
multicast-byte-count)*>
<!ATTLIST multicast-source-group junos:style CDATA #IMPLIED>

<!ELEMENT multicast-source-prefix-length (#PCDATA)>

<!ELEMENT multicast-statistics (instance-name | address-family | mc-stats-interface |
mc-resolves-no-mc-interface | mc-global-resolves-no-route | mc-notifies-no-mc-interface |
mc-notifies-no-route | mc-mismatches-no-mc-interface | mc-groups-no-mc-interface)*>

<!ELEMENT multicast-statistics-information (multicast-statistics)*>
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<!ELEMENT multicast-statistics-timed-out EMPTY>

<!ELEMENT multicast-tunnel (interface-name | tunnel-local-address |
tunnel-remote-address | tunnel-ttl)*>

<!ELEMENT multicast-tunnels-information (multicast-tunnel)*>

<!ELEMENT multicast-usage-information (multicast-usage-no-group-prefix |
multicast-usage-strange-family | multicast-usage-timed-out | multicast-group |
multicast-source)*>

<!ELEMENT multicast-usage-no-group-prefix (#PCDATA)>

<!ELEMENT multicast-usage-strange-family (#PCDATA)>

<!ELEMENT multicast-usage-timed-out EMPTY>

<!ELEMENT mvpn-instance (instance-entry | instance-entry-summary)*>
<!ATTLIST mvpn-instance junos:style CDATA #IMPLIED>

<!ELEMENT mvpn-instance-information (mvpn-instance | instance)*>

<!ELEMENT name (#PCDATA)>

<!ELEMENT nbr-intf-id (#PCDATA)>

<!ELEMENT nbr-rtr-id (#PCDATA)>

<!ELEMENT needs-rebuild EMPTY>

<!ELEMENT neighbor (neighbor-entry)*>

<!ELEMENT neighbor-address (#PCDATA)>

<!ELEMENT neighbor-adjacency-time (#PCDATA)>

<!ELEMENT neighbor-as (#PCDATA)>

<!ELEMENT neighbor-assert-metric (#PCDATA)>

<!ELEMENT neighbor-assert-preference (#PCDATA)>

<!ELEMENT neighbor-assert-timeout (#PCDATA)>

<!ELEMENT neighbor-count (#PCDATA)>

<!ELEMENT neighbor-display-error (#PCDATA)>

<!ELEMENT neighbor-down-count (#PCDATA)>

<!ELEMENT neighbor-entry (neighbor-identifier | provider-tunnel-id)*>

<!ELEMENT neighbor-flags (#PCDATA)>

<!ELEMENT neighbor-id (#PCDATA)>
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<!ELEMENT neighbor-identifier (#PCDATA)>

<!ELEMENT neighbor-idle (#PCDATA)>
<!ATTLIST neighbor-idle junos:seconds CDATA #IMPLIED>

<!ELEMENT neighbor-interface (#PCDATA)>

<!ELEMENT neighbor-join-count (#PCDATA)>

<!ELEMENT neighbor-local-instance (#PCDATA)>

<!ELEMENT neighbor-prefix (#PCDATA)>

<!ELEMENT neighbor-priority (#PCDATA)>

<!ELEMENT neighbor-remote-instance (#PCDATA)>

<!ELEMENT neighbor-replication-sync-status (#PCDATA)>

<!ELEMENT neighbor-secondary EMPTY>

<!ELEMENT neighbor-state (#PCDATA)>

<!ELEMENT neighbor-status (#PCDATA)>

<!ELEMENT neighbor-summary (neighbor-summary-count)*>

<!ELEMENT neighbor-summary-count (#PCDATA)>

<!ELEMENT neighbor-suppress-hello (#PCDATA)>
<!ATTLIST neighbor-suppress-hello junos:seconds CDATA #IMPLIED>

<!ELEMENT neighbor-timeout (#PCDATA)>

<!ELEMENT neighbor-up-count (#PCDATA)>

<!ELEMENT neighbor-up-time (#PCDATA)>

<!ELEMENT netmask-mismatch-error (#PCDATA)>

<!ELEMENT next-hop (#PCDATA)>

<!ELEMENT next-hop-address (interface-address | lsp-name)*>

<!ELEMENT next-hop-downstream-interface (interface-name | interface-index)*>

<!ELEMENT next-hop-element (interface-name | isis-next-hop-type | isis-next-hop |
snpa)*>

<!ELEMENT next-hop-id (#PCDATA)>

<!ELEMENT next-hop-kernel-ref-count (#PCDATA)>

<!ELEMENT next-hop-name (interface-name | interface-link-name)*>

<!ELEMENT next-hop-ref-count (#PCDATA)>
```

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<!ELEMENT next-hop-type (#PCDATA)>

<!ELEMENT next-hops-family (address-family | iflist-next-hop)*>

<!ELEMENT nh (selected-next-hop | ext-int-type | weight | balance | uflags | filter | via |
nh-local-interface | nh-table-receive | nh-table | to | lsp-name | mpls-label | nh-service |
nh-service-pkt-dist | nh-service-app-data | nh-address | nh-index)*>

<!ELEMENT nh-address (#PCDATA)>

<!ELEMENT nh-index (#PCDATA)>

<!ELEMENT nh-kernel-id (#PCDATA)>

<!ELEMENT nh-local-interface (#PCDATA)>

<!ELEMENT nh-reference-count (#PCDATA)>

<!ELEMENT nh-service (#PCDATA)>

<!ELEMENT nh-service-app-data (#PCDATA)>

<!ELEMENT nh-service-pkt-dist (#PCDATA)>

<!ELEMENT nh-table (#PCDATA)>

<!ELEMENT nh-table-receive (#PCDATA)>

<!ELEMENT nh-type (#PCDATA)>

<!ELEMENT nlp-id (#PCDATA)>

<!ELEMENT nlri-flags (bgp-nlri-flag-explicit-null-for-all-routes |
bgp-nlri-flag-explicit-null-for-connected-routes | bgp-nlri-flag-aggregate-label |
bgp-nlri-flag-per-prefix-label | bgp-nlri-flag-per-group-label | bgp-nlri-flag-traffic-stats |
bgp-nlri-flag-l2vpn-status-vector | bgp-nlri-flag-no-l2vpn-status-vector)*>

<!ELEMENT nlri-flow-novalidate (#PCDATA)>

<!ELEMENT nlri-information (nlri-type | nlri-flags | nlri-traffic-stats | nlri-flow-novalidate)*>

<!ELEMENT nlri-name (#PCDATA)>

<!ELEMENT nlri-traffic-stats (tracing-information | traffic-stats-interval)*>

<!ELEMENT nlri-type (#PCDATA)>

<!ELEMENT nlri-type-peer (#PCDATA)>

<!ELEMENT nlri-type-session (#PCDATA)>

<!ELEMENT no-coverage-reason (#PCDATA)>

<!ELEMENT no-decrement-ttl EMPTY>

<!ELEMENT no-eligible-backup EMPTY>
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<!ELEMENT no-error EMPTY>

<!ELEMENT no-first-fragment EMPTY>

<!ELEMENT no-group-flag EMPTY>

<!ELEMENT no-interface-error (#PCDATA)>

<!ELEMENT no-keepalive-timeout EMPTY>

<!ELEMENT no-label EMPTY>

<!ELEMENT no-rfc-1583 EMPTY>

<!ELEMENT no-route (#PCDATA)>

<!ELEMENT no-router-id-error (#PCDATA)>

<!ELEMENT no-statistics EMPTY>

<!ELEMENT node (node-prefix | node-prefix-length | originating-rib | metric | node-path-count | forwarding-nh-count | indirect-nh-count | composite-nh-count | protocol-nh)*>

<!ELEMENT node-count (#PCDATA)>

<!ELEMENT node-id (#PCDATA)>

<!ELEMENT node-path-count (#PCDATA)>

<!ELEMENT node-prefix (#PCDATA)>

<!ELEMENT node-prefix-length (#PCDATA)>

<!ELEMENT nodes (#PCDATA)>

<!ELEMENT none EMPTY>

<!ELEMENT not-remote-address EMPTY>

<!ELEMENT nssa-mismatch-error (#PCDATA)>

<!ELEMENT num-local-interfaces (#PCDATA)>

<!ELEMENT num-local-interfaces-up (#PCDATA)>

<!ELEMENT num-mac-count (#PCDATA)>

<!ELEMENT number (#PCDATA)>

<!ELEMENT number-events (#PCDATA)>

<!ELEMENT oam-bfd-session-state (#PCDATA)>

<!ELEMENT oam-lsp-ping-state (#PCDATA)>

<!ELEMENT oam-state (oam-bfd-session-state | oam-lsp-ping-state)*>

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<!ELEMENT oif-name (#PCDATA)>

<!ELEMENT open-receive-count (#PCDATA)>

<!ELEMENT open-send-count (#PCDATA)>

<!ELEMENT operational-routing-instance-information (instance-name)*>

<!ELEMENT operational-state (#PCDATA)>

<!ELEMENT optimize-protection-timer (#PCDATA)>

<!ELEMENT optimize-timer (#PCDATA)>

<!ELEMENT optional-capability (#PCDATA)>

<!ELEMENT options (#PCDATA)>

<!ELEMENT originating-rib (#PCDATA)>

<!ELEMENT originator (#PCDATA)>

<!ELEMENT ospf-abr EMPTY>

<!ELEMENT ospf-abr-count (#PCDATA)>

<!ELEMENT ospf-area (#PCDATA)>

<!ELEMENT ospf-area-dc-bit-clear-count (#PCDATA)>

<!ELEMENT ospf-area-header (ospf-area)*>

<!ELEMENT ospf-area-indications-count (#PCDATA)>

<!ELEMENT ospf-area-overview (ospf-area | ospf-stub-type | ospf-stub-cost |
ospf-virtual-transit | authentication-type | ospf-abr-count | ospf-asbr-count |
ospf-nbr-overview | ospf-dna-uncapable | ospf-area-dc-bit-clear-count |
ospf-area-indications-count | ospf-area-self-indicating | ospf-link-dc-bit-clear-count)*>

<!ELEMENT ospf-area-self-indicating EMPTY>

<!ELEMENT ospf-as-dc-bit-clear-count (#PCDATA)>

<!ELEMENT ospf-asbr EMPTY>

<!ELEMENT ospf-asbr-count (#PCDATA)>

<!ELEMENT ospf-configured-overload EMPTY>

<!ELEMENT ospf-configured-overload-remaining-time (#PCDATA)>
<!ATTLIST ospf-configured-overload-remaining-time junos:seconds CDATA #IMPLIED>

<!ELEMENT ospf-database (lsa-type | our-entry | lsa-id | advertising-router |
sequence-number | age | ospf-do-not-age | options | checksum | lsa-length |
ospf-router-lsa | ospf-network-lsa | ospf-opaque-area-lsa | ospf-opaque-link-local-lsa |
ospf-summary-lsa | ospf-external-lsa | ospf-database-extensive)*>
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<!ATTLIST ospf-database external-heading CDATA #IMPLIED>
<!ATTLIST ospf-database heading CDATA #IMPLIED>

<!ELEMENT ospf-database-extensive (generation-timer | aging-timer | installation-time | expiration-time | send-time | lsa-changed-time | lsa-change-count | indication-lsa | database-entry-state | database-telink-id | standby-flood-status)*>

<!ELEMENT ospf-database-information (ospf-area-header | ospf-intf-header | ospf-database | ospf-database-summary)*>

<!ELEMENT ospf-database-replication (lsa-type | lsa-id | advertising-router | sequence-number | age | ospf-do-not-age | ospf-synchronization-state | ospf-route-table-index | ospf-area | ospf-router-id | ospf-ifl-index | interface-address | installation-time | ospf-unsync-reason)*>

<!ELEMENT ospf-database-replication-information (ospf-database-replication)*>

<!ELEMENT ospf-database-summary (ospf-area | ospf-intf | ospf-lsa-count | ospf-lsa-type)*>
<!ATTLIST ospf-database-summary external-heading CDATA #IMPLIED>

<!ELEMENT ospf-dna-uncapable EMPTY>

<!ELEMENT ospf-do-not-age EMPTY>

<!ELEMENT ospf-errors (runt-header-error | short-packets-error | bad-version-error | truncated-packets-error | checksum-error | subnet-mismatch-error | virtual-link-error | area-mismatch-error | authentication-mismatch-error | authentication-failure-error | bad-packettype-error | netmask-mismatch-error | hello-interval-mismatch-error | dead-interval-mismatch-error | stub-area-mismatch-error | nssa-mismatch-error | default-exclusion-mismatch-error | mtu-mismatch-error | hello-received-error | no-interface-error | no-router-id-error | instance-id-mismatch-error | lanp2p-cfgmismatch-error | no-error)*>

<!ELEMENT ospf-external-lsa (address-mask | ospf-external-lsa-topology)*>

<!ELEMENT ospf-external-lsa-topology (ospf-topology-name | ospf-topology-id | type-value | ospf-topology-metric | forward-address | tag)*>

<!ELEMENT ospf-full-spf-count (#PCDATA)>

<!ELEMENT ospf-ifl-index (#PCDATA)>

<!ELEMENT ospf-instance-name (#PCDATA)>

<!ELEMENT ospf-instance-neighbor (ospf-instance-name | ospf-neighbor)*>

<!ELEMENT ospf-interface (interface-name | ospf-interface-state | ospf-area | dr-id | bdr-id | neighbor-count | interface-type | interface-address | address-mask | mtu | interface-cost | virtual-link-transit-area | virtual-link-destination | sham-link-local | sham-link-remote | dr-address | bdr-address | router-priority | adj-count | interface-secondary | interface-flood-reduction | passive | hello-interval | poll-interval | dead-interval | retransmit-interval | ospf-stub-type | ipsec-sa | authentication-type | ospf-interface-topology | active-key-id | active-key-start-time | igp-ldp-sync-holdtime | igp-ldp-sync-state | igp-ldp-sync-last-change | igp-ldp-sync-reason | igp-ldp-sync-timeleft | interface-flood-list-count | flood-list-count | lsa-list | interface-description-list)*>

<!ELEMENT ospf-interface-information (ospf-interface)*>

<!ELEMENT ospf-interface-replication (interface-name | interface-address | ospf-area | ospf-synchronization-state | ospf-ifl-index | ospf-router-id | ospf-route-table-index | ospf-internal-index | ospf-sync-dr-id | ospf-sync-bdr-id | dr-address | bdr-address | ospf-sync-dr-status | ospf-sync-bdr-status | ospf-unsync-reason)*>

<!ELEMENT ospf-interface-replication-information (ospf-interface-replication)*>

<!ELEMENT ospf-interface-state (#PCDATA)>

<!ELEMENT ospf-interface-topology (ospf-topology-name | ospf-topology-id | ospf-topology-passive | ospf-topology-disabled | ospf-topology-down | ospf-topology-metric)*>

<!ELEMENT ospf-internal-index (#PCDATA)>

<!ELEMENT ospf-intf (#PCDATA)>

<!ELEMENT ospf-intf-header (ospf-intf | ospf-area)*>

<!ELEMENT ospf-io-statistics (packets-read | average-per-run | max-run | ospf-errors)*>

<!ELEMENT ospf-io-statistics-information (ospf-io-statistics)*>

<!ELEMENT ospf-link (link-id | link-data | link-type-name | link-type-value | ospf-topology-count | metric | ospf-router-link-topology)*>

<!ELEMENT ospf-link-dc-bit-clear-count (#PCDATA)>

<!ELEMENT ospf-link-local-grace-lsa (tlv-grace-type-name | tlv-grace-value)*>

<!ELEMENT ospf-link-local-te-lsa (ospf-link-local-te-tlv | ospf-link-local-te-subtlv)*>

<!ELEMENT ospf-link-local-te-subtlv (link-local-te-tlv-type-name | tlv-type-value | tlv-length | bytes-left | formatted-tlv-data)*>

<!ELEMENT ospf-link-local-te-tlv (link-local-te-tlv-type-name | tlv-type-value | tlv-length | bytes-left | formatted-tlv-data)*>

<!ELEMENT ospf-log-events (log-element | number-events)*>

<!ELEMENT ospf-log-information (ospf-topology-log)*>

<!ELEMENT ospf-log-instance (log-element)*>

<!ELEMENT ospf-log-maximum-length (log-element)*>

<!ELEMENT ospf-log-type (#PCDATA)>

<!ELEMENT ospf-lsa-count (#PCDATA)>

<!ELEMENT ospf-lsa-refresh-time (#PCDATA)>

<!ELEMENT ospf-lsa-type (#PCDATA)>

<!ELEMENT ospf-nbr-overview (ospf-nbr-up-count)*>

<!ELEMENT ospf-nbr-up-count (#PCDATA)>

<!ELEMENT ospf-neighbor (neighbor-address | interface-name | ospf-neighbor-state | neighbor-id | neighbor-priority | activity-timer | ospf-area | options | neighbor-secondary | dr-address | bdr-address | neighbor-up-time | neighbor-adjacency-time | neighbor-suppress-hello | master-slave | sequence-number | dbd-retransmit-time | lsreq-retransmit-time | lsreq-enqueued | lsreq-active | lsa-list | ospf-neighbor-topology)*>

<!ELEMENT ospf-neighbor-information (ospf-neighbor)*>

<!ELEMENT ospf-neighbor-information-all (ospf-instance-neighbor)*>

<!ELEMENT ospf-neighbor-replication (interface-name | ospf-area | neighbor-id | ospf-synchronization-state | ospf-neighbor-state | ospf-ifl-index | ospf-route-table-index | ospf-unsync-reason)*>

<!ELEMENT ospf-neighbor-replication-information (ospf-neighbor-replication)*>

<!ELEMENT ospf-neighbor-state (#PCDATA)>

<!ELEMENT ospf-neighbor-topology (ospf-topology-name | ospf-topology-id | ospf-neighbor-topology-state)*>

<!ELEMENT ospf-neighbor-topology-state (#PCDATA)>

<!ELEMENT ospf-network-lsa (address-mask | attached-router)*>

<!ELEMENT ospf-next-hop (next-hop-name | next-hop-address)*>

<!ELEMENT ospf-nssa-router EMPTY>

<!ELEMENT ospf-opaque-area-lsa (tlv-block | te-subtlv)*>

<!ELEMENT ospf-opaque-link-local-lsa (ospf-link-local-grace-lsa | ospf-link-local-te-lsa)*>

<!ELEMENT ospf-overview (instance-name | ospf-router-id | ospf-route-table-index | ospf-configured-overload | ospf-configured-overload-remaining-time | ospf-abr | ospf-asbr | ospf-nssa-router | ospf-lsa-refresh-time | ospf-traffic-engineering | ospf-restart | ospf-restart-enabled | ospf-restart-duration | ospf-restart-grace-period | ospf-restart-helper-mode | no-rfc-1583 | ospf-dna-uncapable | ospf-as-dc-bit-clear-count | ospf-area-dc-bit-clear-count | ospf-area-indications-count | ospf-link-dc-bit-clear-count | tracing-information | ospf-area-overview | ospf-topology-overview)*>

<!ELEMENT ospf-overview-information (ospf-overview)*>

<!ELEMENT ospf-packet-type (#PCDATA)>

<!ELEMENT ospf-prefix-export-count (#PCDATA)>

<!ELEMENT ospf-prefix-export-limit (#PCDATA)>

<!ELEMENT ospf-restart (#PCDATA)>

<!ELEMENT ospf-restart-duration (#PCDATA)>

<!ELEMENT ospf-restart-enabled (#PCDATA)>

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<!ELEMENT ospf-restart-grace-period (#PCDATA)>

<!ELEMENT ospf-restart-helper-mode (#PCDATA)>

<!ELEMENT ospf-route (ospf-route-entry)*>

<!ELEMENT ospf-route-entry (address-prefix | route-path-type | route-type | next-hop-type
| interface-cost | ospf-next-hop | ospf-area | optional-capability | route-origin |
route-priority | type7 | pbit | forward-nz)*>

<!ELEMENT ospf-route-information (ospf-topology-route-table)*>

<!ELEMENT ospf-route-table-index (#PCDATA)>

<!ELEMENT ospf-router-id (#PCDATA)>

<!ELEMENT ospf-router-link-topology (ospf-topology-name | ospf-topology-id |
ospf-topology-metric)*>

<!ELEMENT ospf-router-lsa (bits | link-count | ospf-link)*>

<!ELEMENT ospf-spf-delay (#PCDATA)>
<!ATTLIST ospf-spf-delay junos:seconds CDATA #IMPLIED>

<!ELEMENT ospf-spf-holddown (#PCDATA)>
<!ATTLIST ospf-spf-holddown junos:seconds CDATA #IMPLIED>

<!ELEMENT ospf-spf-rapid-runs (#PCDATA)>

<!ELEMENT ospf-statistics (packet-statistics | dbds-retransmit |
dbds-retransmit-5seconds | lsas-flooded | lsas-flooded-5seconds |
lsas-high-prio-flooded | lsas-high-prio-flooded-5seconds | lsas-retransmit |
lsas-retransmit-5seconds | lsas-nbr-transmit | lsas-nbr-transmit-5seconds |
lsas-requested | lsas-requested-5seconds | lsas-acknowledged |
lsas-acknowledged-5seconds | flood-queue-depth | total-retransmits |
total-database-summaries | total-linkstate-request | ospf-errors)*>

<!ELEMENT ospf-statistics-information (ospf-statistics)*>

<!ELEMENT ospf-stub-cost (#PCDATA)>

<!ELEMENT ospf-stub-type (#PCDATA)>

<!ELEMENT ospf-summary-lsa (address-mask | ospf-summary-lsa-topology)*>

<!ELEMENT ospf-summary-lsa-topology (ospf-topology-name | ospf-topology-id |
ospf-topology-metric)*>

<!ELEMENT ospf-sync-bdr-id (#PCDATA)>

<!ELEMENT ospf-sync-bdr-status (#PCDATA)>

<!ELEMENT ospf-sync-dr-id (#PCDATA)>

<!ELEMENT ospf-sync-dr-status (#PCDATA)>
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<!ELEMENT ospf-synchronization-state (#PCDATA)>

<!ELEMENT ospf-te-shortcuts EMPTY>

<!ELEMENT ospf-topology-configured-overload EMPTY>

<!ELEMENT ospf-topology-count (#PCDATA)>

<!ELEMENT ospf-topology-disabled EMPTY>

<!ELEMENT ospf-topology-down EMPTY>

<!ELEMENT ospf-topology-dynamic-overload EMPTY>

<!ELEMENT ospf-topology-id (#PCDATA)>

<!ELEMENT ospf-topology-log (ospf-topology-name | ospf-log-instance |
ospf-log-maximum-length | ospf-log-events)*>

<!ELEMENT ospf-topology-metric (#PCDATA)>

<!ELEMENT ospf-topology-name (#PCDATA)>

<!ELEMENT ospf-topology-overview (ospf-topology-name | ospf-topology-id |
ospf-topology-configured-overload | ospf-topology-dynamic-overload |
ospf-prefix-export-count | ospf-prefix-export-limit | ospf-full-spf-count | ospf-spf-delay |
ospf-spf-holddown | ospf-spf-rapid-runs | ospf-te-shortcuts)*>

<!ELEMENT ospf-topology-passive EMPTY>

<!ELEMENT ospf-topology-route-table (ospf-topology-name | ospf-route)*>

<!ELEMENT ospf-traffic-engineering EMPTY>

<!ELEMENT ospf-unsync-reason (#PCDATA)>

<!ELEMENT ospf-virtual-transit EMPTY>

<!ELEMENT ospf3-area-header (ospf-area)*>

<!ELEMENT ospf3-database (lsa-type | our-entry | lsa-id | advertising-router |
sequence-number | age | ospf-do-not-age | checksum | lsa-length | ospf3-router-lsa |
ospf3-network-lsa | ospf3-inter-area-prefix-lsa | ospf3-inter-area-router-lsa |
ospf3-external-lsa | ospf3-link-lsa | ospf3-intra-area-prefix-lsa | ospf-database-extensive |
ospf-opaque-link-local-lsa)*>
<!ATTLIST ospf3-database external-heading CDATA #IMPLIED>
<!ATTLIST ospf3-database heading CDATA #IMPLIED>

<!ELEMENT ospf3-database-information (ospf3-area-header | ospf3-intf-header |
ospf3-database | ospf3-database-summary)*>

<!ELEMENT ospf3-database-replication-information (ospf-database-replication)*>

<!ELEMENT ospf3-database-summary (ospf-area | ospf-intf | ospf-lsa-count |
ospf-lsa-type)*>
<!ATTLIST ospf3-database-summary external-heading CDATA #IMPLIED>
```

<!ELEMENT ospf3-external-lsa (ospf3-prefix | ospf3-prefix-options | type-value | metric | forward-address | tag)*>

<!ELEMENT ospf3-instance-neighbor (ospf-instance-name | ospf3-realm-neighbor)*>

<!ELEMENT ospf3-inter-area-prefix-lsa (ospf3-prefix | ospf3-prefix-options | metric)*>

<!ELEMENT ospf3-inter-area-router-lsa (destination-router-id | ospf3-options | metric)*>

<!ELEMENT ospf3-interface (interface-name | ospf-interface-state | ospf-area | dr-id | bdr-id | neighbor-count | interface-address | prefix-length | ospf3-interface-index | interface-type | mtu | interface-cost | virtual-link-transit-area | virtual-link-destination | dr-address | bdr-address | router-priority | adj-count | interface-secondary | interface-flood-reduction | passive | hello-interval | poll-interval | dead-interval | retransmit-interval | ospf-stub-type | ipsec-sa | igp-ldp-sync-holdtime | igp-ldp-sync-state | igp-ldp-sync-last-change | igp-ldp-sync-reason | igp-ldp-sync-timeleft | interface-flood-list-count | flood-list-count | lsa-list | interface-description-list)*>

<!ELEMENT ospf3-interface-index (#PCDATA)>

<!ELEMENT ospf3-interface-information (ospf3-interface)*>

<!ELEMENT ospf3-interface-replication-information (ospf-interface-replication)*>

<!ELEMENT ospf3-intf-header (ospf-intf | ospf-area)*>

<!ELEMENT ospf3-intra-area-prefix-lsa (reference-lsa-type | reference-lsa-id | reference-lsa-router-id | prefix-count | ospf3-prefix | ospf3-prefix-options | ospf3-prefix-metric)*>

<!ELEMENT ospf3-io-statistics-information (ospf-io-statistics)*>

<!ELEMENT ospf3-link (link-type-name | link-type-value | link-intf-id | nbr-intf-id | nbr-rtr-id | link-metric)*>

<!ELEMENT ospf3-link-lsa (linklocal-address | ospf3-options | router-priority | prefix-count | ospf3-prefix | ospf3-prefix-options)*>

<!ELEMENT ospf3-log-information (ospf-log-instance | ospf-log-maximum-length | ospf-log-events)*>

<!ELEMENT ospf3-neighbor (neighbor-id | interface-name | ospf-neighbor-state | neighbor-priority | activity-timer | neighbor-address | ospf-area | options | neighbor-secondary | ospf3-interface-index | dr-id | bdr-id | neighbor-up-time | neighbor-adjacency-time | neighbor-suppress-hello | master-slave | sequence-number | dbd-retransmit-time | lsreq-retransmit-time | lsreq-enqueued | lsreq-active | lsa-list)*>

<!ELEMENT ospf3-neighbor-information (ospf3-neighbor)*>

<!ELEMENT ospf3-neighbor-information-all (ospf3-instance-neighbor)*>

<!ELEMENT ospf3-neighbor-replication-information (ospf-neighbor-replication)*>

<!ELEMENT ospf3-network-lsa (ospf3-options | attached-router)*>

<!ELEMENT ospf3-options (#PCDATA)>

<!ELEMENT ospf3-overview-information (ospf-overview)*>

<!ELEMENT ospf3-prefix (#PCDATA)>

<!ELEMENT ospf3-prefix-metric (#PCDATA)>

<!ELEMENT ospf3-prefix-options (#PCDATA)>

<!ELEMENT ospf3-realm-name (#PCDATA)>

<!ELEMENT ospf3-realm-neighbor (ospf3-realm-name | ospf3-neighbor)*>

<!ELEMENT ospf3-route (ospf3-route-entry)*>

<!ELEMENT ospf3-route-entry (address-prefix | route-path-type | route-type | next-hop-type | interface-cost | ospf-next-hop | ospf-area | optional-capability | route-origin | route-priority | type7 | pbit | forward-nz)*>

<!ELEMENT ospf3-route-information (ospf3-route)*>

<!ELEMENT ospf3-router-lsa (bits | ospf3-options | ospf3-link)*>

<!ELEMENT ospf3-statistics-information (ospf-statistics)*>

<!ELEMENT our-entry EMPTY>

<!ELEMENT outbound-label (#PCDATA)>

<!ELEMENT outbound-timer (#PCDATA)>

<!ELEMENT output-messages (#PCDATA)>

<!ELEMENT output-octets (#PCDATA)>

<!ELEMENT output-refreshes (#PCDATA)>

<!ELEMENT output-updates (#PCDATA)>

<!ELEMENT overbooked-bandwidth (bandwidth-priority | total-reserved-bandwidth)*>

<!ELEMENT overbooked-ct-bandwidth (ct-class | ct-bw0 | ct-bw1 | ct-bw2 | ct-bw3 | ct-bw4 | ct-bw5 | ct-bw6 | ct-bw7)*>

<!ELEMENT overflow-limit (#PCDATA)>

<!ELEMENT overflow-sample-count (#PCDATA)>

<!ELEMENT overhead (#PCDATA)>

<!ELEMENT packet-information (previous-hop | next-hop | interface-name | count)*>
<!ATTLIST packet-information heading CDATA #IMPLIED>

<!ELEMENT packet-statistics (ospf-packet-type | packets-sent | packets-received | packets-sent-5seconds | packets-received-5seconds)*>

<!ELEMENT packet-version (#PCDATA)>

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<!ELEMENT packets-dropped (#PCDATA)>

<!ELEMENT packets-processed (#PCDATA)>

<!ELEMENT packets-read (#PCDATA)>

<!ELEMENT packets-received (#PCDATA)>

<!ELEMENT packets-received-5seconds (#PCDATA)>

<!ELEMENT packets-retransmitted (#PCDATA)>

<!ELEMENT packets-sent (#PCDATA)>

<!ELEMENT packets-sent-5seconds (#PCDATA)>

<!ELEMENT passive (#PCDATA)>

<!ELEMENT path-active EMPTY>

<!ELEMENT path-adaptive EMPTY>

<!ELEMENT path-available-bandwidth (bandwidth | class-type | class-bandwidth)*>
<!ATTLIST path-available-bandwidth heading CDATA #IMPLIED>

<!ELEMENT path-count (#PCDATA)>

<!ELEMENT path-flags (#PCDATA)>

<!ELEMENT path-history (sequence-number | time | log | route)*>

<!ELEMENT path-mtu (#PCDATA)>

<!ELEMENT path-mtu-in-kernel (#PCDATA)>

<!ELEMENT path-no-recordroute EMPTY>

<!ELEMENT path-references (#PCDATA)>

<!ELEMENT path-soft-preemption-pending EMPTY>

<!ELEMENT path-standby EMPTY>

<!ELEMENT path-state (#PCDATA)>

<!ELEMENT path-state-address (#PCDATA)>

<!ELEMENT path-state-id (#PCDATA)>

<!ELEMENT path-state-interface-id (#PCDATA)>

<!ELEMENT path-state-nh-avoid-address (#PCDATA)>

<!ELEMENT path-state-nh-ero (#PCDATA)>

<!ELEMENT path-state-nh-msg-id (#PCDATA)>
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<!ELEMENT path-state-nh-outgoing-interface (#PCDATA)>
<!ELEMENT path-state-nh-peer-address (#PCDATA)>
<!ELEMENT path-state-nh-te-link-id (#PCDATA)>
<!ELEMENT path-state-nh-type (#PCDATA)>
<!ELEMENT path-state-nh-upstream-tag (#PCDATA)>
<!ELEMENT path-state-resv-msg-id (#PCDATA)>
<!ELEMENT path-state-rr-epoch (#PCDATA)>
<!ELEMENT path-state-self-id (#PCDATA)>
<!ELEMENT path-state-session-id (#PCDATA)>
<!ELEMENT path-state-tag (#PCDATA)>
<!ELEMENT path-type (#PCDATA)>
<!ELEMENT pbit EMPTY>
<!ELEMENT pdu-length (#PCDATA)>
<!ELEMENT pdu-lifetime (#PCDATA)>
<!ELEMENT pdu-version (#PCDATA)>
<!ELEMENT pe-address-local (#PCDATA)>
<!ELEMENT peer-4byte-as-capability-advertised (#PCDATA)>
<!ELEMENT peer-4byte-as-capability-not-supported EMPTY>
<!ELEMENT peer-address (#PCDATA)>
<!ELEMENT peer-as (#PCDATA)>
<!ELEMENT peer-count (#PCDATA)>
<!ELEMENT peer-end-of-rib-received (#PCDATA)>
<!ELEMENT peer-end-of-rib-scheduled (#PCDATA)>
<!ELEMENT peer-end-of-rib-sent (#PCDATA)>
<!ELEMENT peer-flags (#PCDATA)>
<!ELEMENT peer-id (#PCDATA)>
<!ELEMENT peer-index (#PCDATA)>
<!ELEMENT peer-no-refresh EMPTY>
<!ELEMENT peer-no-restart EMPTY>
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<!ELEMENT peer-refresh-capability (#PCDATA)>

<!ELEMENT peer-restart-flags-received (#PCDATA)>

<!ELEMENT peer-restart-nlri-can-save-state (#PCDATA)>

<!ELEMENT peer-restart-nlri-configured (#PCDATA)>

<!ELEMENT peer-restart-nlri-negotiated (#PCDATA)>

<!ELEMENT peer-restart-nlri-received (#PCDATA)>

<!ELEMENT peer-restart-nlri-state-saved (#PCDATA)>

<!ELEMENT peer-restart-time-configured (#PCDATA)>

<!ELEMENT peer-restart-time-received (#PCDATA)>

<!ELEMENT peer-stale-route-time-configured (#PCDATA)>

<!ELEMENT peer-state (#PCDATA)>

<!ELEMENT peer-type (#PCDATA)>

<!ELEMENT pending-prefix-count (#PCDATA)>

<!ELEMENT per-class-bandwidth-heading (#PCDATA)>

<!ELEMENT pim-anycast-register-state-origin (#PCDATA)>

<!ELEMENT pim-bootstrap-information (pim-instance | bootstrap-family)*>

<!ELEMENT pim-group-flags (sparse | dense | delete | rptree | wildcard | spt |
spt-pending)*>

<!ELEMENT pim-instance (#PCDATA)>

<!ELEMENT pim-interface (pim-interface-name | status | pim-interface-mode |
ip-protocol-version | protocol-version | interface-state | neighbor-count |
interface-join-count | designated-router-address | pim-neighbor)*>

<!ELEMENT pim-interface-mode (#PCDATA)>

<!ELEMENT pim-interface-name (#PCDATA)>

<!ELEMENT pim-interface-state (#PCDATA)>

<!ELEMENT pim-interfaces-information (pim-instance | pim-interface)*>

<!ELEMENT pim-join-information (join-family)*>

<!ELEMENT pim-mdt-information (pim-instance | mdt-default-group-address |
mdt-default-source-address | mdt-default-interface-name | mdt-tunnel-direction |
mdt-tunnel-mode | mdt-pim-instance | mdt-default-tunnel-information |
mdt-active-tunnel)*>
<!ATTLIST pim-mdt-information junos:style CDATA #IMPLIED>
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<!ELEMENT pim-mvpn-address (#PCDATA)>

<!ELEMENT pim-mvpn-information (pim-mvpn-instance-name | pim-mvpn-address |
pim-mvpn-mode | pim-mvpn-tunnel)*>

<!ELEMENT pim-mvpn-instance-name (#PCDATA)>

<!ELEMENT pim-mvpn-mode (#PCDATA)>

<!ELEMENT pim-mvpn-tunnel (#PCDATA)>

<!ELEMENT pim-neighbor (pim-interface-name | ip-protocol-version | protocol-version |
pim-interface-mode | neighbor-join-count | pim-neighbor-flags | pim-neighbor-uptime |
pim-neighbor-address | pim-neighbor-secondary-address | hello-holdtime |
hello-holdtime-remaining | hello-default-holdtime | hello-default-holdtime-remaining |
hello-dr-priority | hello-generation-id | hello-lanprune-delay | hello-override-interval |
pim-neighbor-bfd | pim-neighbor-join | pim-neighbor-assert)*>

<!ELEMENT pim-neighbor-address (#PCDATA)>

<!ELEMENT pim-neighbor-assert (multicast-group-address | multicast-source-address |
assert-state | pim-neighbor-address | assert-timeout)*>

<!ELEMENT pim-neighbor-bfd (configuration-state | operational-state)*>

<!ELEMENT pim-neighbor-bidirectional-flag EMPTY>

<!ELEMENT pim-neighbor-flags (pim-neighbor-hold-time-flag | pim-neighbor-priority-flag |
pim-neighbor-lan-prune-flag | pim-neighbor-generation-id-flag |
pim-neighbor-bidirectional-flag | pim-neighbor-t-bit-flag)*>

<!ELEMENT pim-neighbor-generation-id-flag EMPTY>

<!ELEMENT pim-neighbor-hold-time-flag EMPTY>

<!ELEMENT pim-neighbor-join (multicast-group-address | multicast-source-address |
join-timeout)*>

<!ELEMENT pim-neighbor-lan-prune-flag EMPTY>

<!ELEMENT pim-neighbor-priority-flag EMPTY>

<!ELEMENT pim-neighbor-secondary-address (#PCDATA)>

<!ELEMENT pim-neighbor-t-bit-flag EMPTY>

<!ELEMENT pim-neighbor-uptime (#PCDATA)>
<!ATTLIST pim-neighbor-uptime junos:seconds CDATA #IMPLIED>

<!ELEMENT pim-neighbors-information (pim-instance | pim-interface)*>
<!ATTLIST pim-neighbors-information junos:style CDATA #IMPLIED>

<!ELEMENT pim-other-statistic (statistic-name | statistic-count)*>

<!ELEMENT pim-pseudo-downstream-interface-name (#PCDATA)>
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<!ELEMENT pim-register-state (#PCDATA)>

<!ELEMENT pim-register-timeout (#PCDATA)>

<!ELEMENT pim-rps-information (pim-instance | rp-family |
rendezvous-point-address-info)*>

<!ELEMENT pim-source (multicast-source-address | route-prefix |
upstream-interface-name | upstream-neighbor | upstream-group)*>

<!ELEMENT pim-source-information (source-family)*>

<!ELEMENT pim-statistic (statistic-name | received-count | sent-count | error-count)*>

<!ELEMENT pim-statistics-all (pim-instance | pim-statistics-global |
pim-statistics-other)*>

<!ELEMENT pim-statistics-global (pim-statistic)*>

<!ELEMENT pim-statistics-information (statistics-family | pim-statistics-all |
everything)*>

<!ELEMENT pim-statistics-interface (pim-interface-name | pim-statistic)*>

<!ELEMENT pim-statistics-other (pim-other-statistic)*>

<!ELEMENT pmsi (#PCDATA)>

<!ELEMENT policy-name (#PCDATA)>

<!ELEMENT poll-interval (#PCDATA)>

<!ELEMENT preemption-count (#PCDATA)>

<!ELEMENT preemption-type (#PCDATA)>

<!ELEMENT preference (#PCDATA)>

<!ELEMENT preference2 (#PCDATA)>

<!ELEMENT prefix (#PCDATA)>

<!ELEMENT prefix-count (#PCDATA)>

<!ELEMENT prefix-downflag EMPTY>

<!ELEMENT prefix-element (address-prefix | prefix-metric | external-prefix-metric)*>

<!ELEMENT prefix-err-message EMPTY>

<!ELEMENT prefix-extern EMPTY>

<!ELEMENT prefix-flag (#PCDATA)>

<!ELEMENT prefix-length (#PCDATA)>

<!ELEMENT prefix-limit (nlri-type | prefix-count | limit-action | warning-percentage)*>
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<!ELEMENT prefix-metric (#PCDATA)>

<!ELEMENT prefix-orf (#PCDATA)>

<!ELEMENT prefix-reachability (address-prefix | route-type | metric | flags | level | isis-fragment | tsi | isis-topology-id | isis-prefix-tag)*>

<!ELEMENT prefix-status (#PCDATA)>

<!ELEMENT previous-hop (#PCDATA)>

<!ELEMENT primary (#PCDATA)>

<!ELEMENT profile-name (#PCDATA)>

<!ELEMENT protect-flag (#PCDATA)>

<!ELEMENT protection-type (#PCDATA)>

<!ELEMENT proto-id (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>

<!ELEMENT protocol-name (#PCDATA)>

<!ELEMENT protocol-nh (to | metric | indirect-nh | composite-nh | vpnlabel-nh | mpls-label | balance | forwarding-nh-count | nh-type | ext-int-type | nh)*>

<!ELEMENT protocol-route-count (#PCDATA)>

<!ELEMENT protocol-version (#PCDATA)>

<!ELEMENT protocols (protocol-name | protocol-route-count | active-route-count)*>

<!ELEMENT protocols-tlv (protocol)*>

<!ELEMENT provider-tunnel (provider-tunnel-id)*>

<!ELEMENT provider-tunnel-id (#PCDATA)>

<!ELEMENT proxy-state (#PCDATA)>

<!ELEMENT proxy-upstream-interface (interface-name)*>

<!ELEMENT prune-to-rp EMPTY>

<!ELEMENT prune-to-source EMPTY>

<!ELEMENT pruned-timeout (#PCDATA)>

<!ELEMENT psb-creation-time (#PCDATA)>

<!ELEMENT psb-lifetime (#PCDATA)>

<!ELEMENT purges-initiated (#PCDATA)>

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<!ELEMENT querier-address (#PCDATA)>

<!ELEMENT querier-timeout (#PCDATA)>

<!ELEMENT query-interval (#PCDATA)>

<!ELEMENT query-other-timeout (#PCDATA)>

<!ELEMENT query-response-interval (#PCDATA)>

<!ELEMENT queue-count (#PCDATA)>

<!ELEMENT queue-number (#PCDATA)>

<!ELEMENT reachability-delay EMPTY>

<!ELEMENT reachability-error EMPTY>

<!ELEMENT reachability-expense EMPTY>

<!ELEMENT reachability-tlv (isis-topology-id | address-prefix | metric | metric-flag |
reachability-delay | reachability-expense | reachability-error | prefix-status | address |
neighbor-prefix | tlv-length | isis-reachability-subtlv)*>
<!ATTLIST reachability-tlv heading CDATA #IMPLIED>

<!ELEMENT receive-buffer-size (#PCDATA)>

<!ELEMENT receive-count (#PCDATA)>

<!ELEMENT receive-lsp-count (#PCDATA)>

<!ELEMENT receive-mode-ripng (#PCDATA)>

<!ELEMENT receive-mode-ripv2 (#PCDATA)>

<!ELEMENT received-count (#PCDATA)>

<!ELEMENT received-prefix-count (#PCDATA)>

<!ELEMENT received-rro (#PCDATA)>

<!ELEMENT receiver (#PCDATA)>

<!ELEMENT record-route (address | telink-id | self | incomplete)*>
<!ATTLIST record-route heading CDATA #IMPLIED>

<!ELEMENT record-timeout (#PCDATA)>

<!ELEMENT record-type (#PCDATA)>

<!ELEMENT recovery-label-in (#PCDATA)>

<!ELEMENT recovery-label-out (#PCDATA)>

<!ELEMENT recovery-time (#PCDATA)>

<!ELEMENT redundant-sources (multicast-source-address)*>
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<!ELEMENT reference-count (#PCDATA)>

<!ELEMENT reference-lsa-id (#PCDATA)>

<!ELEMENT reference-lsa-router-id (#PCDATA)>

<!ELEMENT reference-lsa-type (#PCDATA)>

<!ELEMENT reference-site (vpls-signaling-protocol-identifier | local-site-id | vpls-id |
num-local-interfaces | num-local-interfaces-up | irb-present | mesh-group-count |
mesh-group-up-count | remote-site-id | mesh-group-interfaces | interface | label-block |
connection | mesh-group-connection | automatic-site-name | automatic-site-id-status |
automatic-site-claim-id | automatic-site-collisions | automatic-site-timer-status |
automatic-site-timers | connections-summary)*>

<!ELEMENT references (#PCDATA)>

<!ELEMENT refresh-timer (#PCDATA)>

<!ELEMENT register-interface-name (#PCDATA)>

<!ELEMENT register-rp (#PCDATA)>

<!ELEMENT rejected-downstream-interface-names (#PCDATA)>

<!ELEMENT remaining-lifetime (#PCDATA)>

<!ELEMENT remote-address (#PCDATA)>

<!ELEMENT remote-ifindex (#PCDATA)>

<!ELEMENT remote-interface (interface-name | interface-status |
interface-encapsulation)*>

<!ELEMENT remote-pe (#PCDATA)>

<!ELEMENT remote-site-id (#PCDATA)>

<!ELEMENT rendezvous-point (rendezvous-point-address | rp-flag-static | rp-flag-autorp |
rp-flag-bootstrap | rp-flag-embedded-rp | rendezvous-point-from-address |
rendezvous-point-holdtime | rendezvous-point-refcount | rendezvous-point-time-active |
rendezvous-point-holdtime-remaining | rp-interface-device-index |
rp-interface-device-subunit | pim-interface-name | rendezvous-point-timeout |
rendezvous-point-active-groups | rendezvous-point-group-prefixes |
rendezvous-point-active-group-prefixes | rendezvous-point-register-state |
rendezvous-point-anycast-pim-rpset | rendezvous-point-anycast-pim-local-address |
rendezvous-point-anycast-register-state)*>
<!ATTLIST rendezvous-point junos:style CDATA #IMPLIED>

<!ELEMENT rendezvous-point-active-group-prefix (multicast-group-address)*>

<!ELEMENT rendezvous-point-active-group-prefixes (rendezvous-point-active-group-prefix
| rendezvous-point-active-groups)*>

<!ELEMENT rendezvous-point-active-groups (#PCDATA)>
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<!ELEMENT rendezvous-point-address (#PCDATA)>

<!ELEMENT rendezvous-point-address-info (pim-instance | rendezvous-point-trees |
rendezvous-point-address | rendezvous-point-embedded-rp-address |
rendezvous-point-no-address)*>

<!ELEMENT rendezvous-point-addresses (rendezvous-point-address |
rendezvous-point-hash)*>

<!ELEMENT rendezvous-point-anycast-pim-local-address (#PCDATA)>

<!ELEMENT rendezvous-point-anycast-pim-rpset (multicast-group-address)*>

<!ELEMENT rendezvous-point-anycast-register-state (multicast-group-address |
multicast-source-address | pim-anycast-register-state-origin)*>

<!ELEMENT rendezvous-point-embedded-rp-address EMPTY>

<!ELEMENT rendezvous-point-from-address (#PCDATA)>

<!ELEMENT rendezvous-point-group-prefixes (multicast-group-prefix | rp-group-timeout |
rp-group-state)*>

<!ELEMENT rendezvous-point-hash (#PCDATA)>

<!ELEMENT rendezvous-point-holdtime (#PCDATA)>

<!ELEMENT rendezvous-point-holdtime-remaining (#PCDATA)>

<!ELEMENT rendezvous-point-no-address (#PCDATA)>

<!ELEMENT rendezvous-point-refcount (#PCDATA)>

<!ELEMENT rendezvous-point-register-state (multicast-group-address |
multicast-source-address | first-hop-address | rendezvous-point-address |
pim-register-state | pim-register-timeout)*>

<!ELEMENT rendezvous-point-time-active (#PCDATA)>
<!ATTLIST rendezvous-point-time-active junos:seconds CDATA #IMPLIED>

<!ELEMENT rendezvous-point-timeout (#PCDATA)>

<!ELEMENT rendezvous-point-trees (multicast-group-prefix |
rendezvous-point-addresses)*>

<!ELEMENT replication-entry-in-use (#PCDATA)>

<!ELEMENT replication-neighbor-address (#PCDATA)>

<!ELEMENT replication-neighbor-up-count (#PCDATA)>

<!ELEMENT replication-state (#PCDATA)>

<!ELEMENT request-tgt-receive-count (#PCDATA)>

<!ELEMENT request-wild-receive-count (#PCDATA)>
```

<!ELEMENT requires-intra-domain-path EMPTY>

<!ELEMENT reserved-bandwidth (bandwidth-priority | total-reserved-bandwidth)*>

<!ELEMENT reserved-ct-bandwidth (ct-class | ct-bw0 | ct-bw1 | ct-bw2 | ct-bw3 | ct-bw4 | ct-bw5 | ct-bw6 | ct-bw7)*>

<!ELEMENT restart-state (#PCDATA)>

<!ELEMENT restart-status (#PCDATA)>

<!ELEMENT restart-time (#PCDATA)>

<!ELEMENT resv-state-interface-id (#PCDATA)>

<!ELEMENT resv-state-self-id (#PCDATA)>

<!ELEMENT resv-state-session-id (#PCDATA)>

<!ELEMENT resv-style (#PCDATA)>

<!ELEMENT retransmit-interval (#PCDATA)>

<!ELEMENT retry-limit (#PCDATA)>

<!ELEMENT retry-timer (#PCDATA)>

<!ELEMENT reuse-preference (#PCDATA)>

<!ELEMENT reuse-time (#PCDATA)>
<!ATTLIST reuse-time junos:seconds CDATA #IMPLIED>

<!ELEMENT reverse-oif (oif-name | host-count)*>

<!ELEMENT revert-timer (#PCDATA)>

<!ELEMENT revert-timer-remain (#PCDATA)>

<!ELEMENT rib-bit (#PCDATA)>

<!ELEMENT rip-bad-messages (#PCDATA)>

<!ELEMENT rip-current-memory (#PCDATA)>

<!ELEMENT rip-error (rip-error-message)*>

<!ELEMENT rip-error-message (#PCDATA)>

<!ELEMENT rip-general-statistics (rip-protocol-name | rip-bad-messages | rip-interface-count | rip-current-memory | rip-maximum-memory)*>

<!ELEMENT rip-general-statistics-information (rip-general-statistics)*>

<!ELEMENT rip-global-statistics (rip-routes-learned | rip-routes-holddown | rip-requests-dropped | rip-responses-dropped)*>

<!ELEMENT rip-holddown (#PCDATA)>

```
<!ELEMENT rip-instance-name (#PCDATA)>

<!ELEMENT rip-instance-neighbor (rip-instance-name | rip-neighbor)*>

<!ELEMENT rip-instance-statistics (rip-instance-name | rip-timer-values |
rip-restart-values | rip-global-statistics | rip-neighbor-statistics)*>

<!ELEMENT rip-interface-count (#PCDATA)>

<!ELEMENT rip-local-address-ipv4 (#PCDATA)>

<!ELEMENT rip-local-address-ipv6 (#PCDATA)>

<!ELEMENT rip-maximum-memory (#PCDATA)>

<!ELEMENT rip-message (#PCDATA)>

<!ELEMENT rip-message-last-5minutes (#PCDATA)>

<!ELEMENT rip-message-last-minute (#PCDATA)>

<!ELEMENT rip-message-statistics (rip-message | rip-message-total |
rip-message-last-5minutes | rip-message-last-minute)*>

<!ELEMENT rip-message-total (#PCDATA)>

<!ELEMENT rip-neighbor (rip-neighbor-name | rip-neighbor-state | rip-neighbor-metric-in |
rip-local-address-ipv4 | rip-remote-address-ipv4 | send-mode-ripv2 | receive-mode-ripv2 |
rip-local-address-ipv6 | rip-remote-address-ipv6 | send-mode-ripng |
receive-mode-ripng)*>
<!ATTLIST rip-neighbor junos:style CDATA #IMPLIED>

<!ELEMENT rip-neighbor-advertised-routes (#PCDATA)>

<!ELEMENT rip-neighbor-information (rip-neighbor)*>

<!ELEMENT rip-neighbor-information-all (rip-instance-neighbor)*>

<!ELEMENT rip-neighbor-learnt-routes (#PCDATA)>

<!ELEMENT rip-neighbor-metric-in (#PCDATA)>

<!ELEMENT rip-neighbor-name (#PCDATA)>

<!ELEMENT rip-neighbor-route-timeout (#PCDATA)>

<!ELEMENT rip-neighbor-state (#PCDATA)>

<!ELEMENT rip-neighbor-statistics (rip-neighbor-name | rip-neighbor-learnt-routes |
rip-neighbor-advertised-routes | rip-neighbor-route-timeout | rip-neighbor-update-interval |
rip-message-statistics)*>

<!ELEMENT rip-neighbor-update-interval (#PCDATA)>

<!ELEMENT rip-port (#PCDATA)>
```

<!ELEMENT rip-protocol-name (#PCDATA)>

<!ELEMENT rip-remote-address-ipv4 (#PCDATA)>

<!ELEMENT rip-remote-address-ipv6 (#PCDATA)>

<!ELEMENT rip-requests-dropped (#PCDATA)>

<!ELEMENT rip-responses-dropped (#PCDATA)>

<!ELEMENT rip-restart-state (#PCDATA)>

<!ELEMENT rip-restart-time (#PCDATA)>

<!ELEMENT rip-restart-timeout (#PCDATA)>

<!ELEMENT rip-restart-values (rip-restart-state | rip-restart-time | rip-restart-timeout)*>

<!ELEMENT rip-routes-holddown (#PCDATA)>

<!ELEMENT rip-routes-learned (#PCDATA)>

<!ELEMENT rip-statistics-information (rip-timer-values | rip-restart-values | rip-global-statistics | rip-neighbor-statistics)*>

<!ELEMENT rip-statistics-information-all (rip-instance-statistics)*>

<!ELEMENT rip-timer-values (rip-protocol-name | rip-port | rip-holddown)*>

<!ELEMENT robustness-count (#PCDATA)>

<!ELEMENT route (#PCDATA)>

<!ELEMENT route-count (#PCDATA)>

<!ELEMENT route-distinguisher (#PCDATA)>

<!ELEMENT route-family (address-family | multicast-route)*>

<!ELEMENT route-filter (address | flags | extended-information)*>

<!ELEMENT route-flap-count (#PCDATA)>

<!ELEMENT route-flap-damping (merit | last-merit | damping-parameters | default-damping-parameters | last-update | first-update | route-flap-count | suppressed | reuse-time | reuse-preference | expire-time)*>

<!ELEMENT route-information (as-number | router-id | route-table | rt-martians | rt-ribgroup | rt-test-policy-prefix | rt-test-policy)*>

<!ELEMENT route-label (#PCDATA)>

<!ELEMENT route-origin (#PCDATA)>

<!ELEMENT route-path-type (#PCDATA)>

<!ELEMENT route-prefix (#PCDATA)>

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<!ELEMENT route-priority (#PCDATA)>

<!ELEMENT route-queue (timer | state | element)*>

<!ELEMENT route-queue-count (#PCDATA)>

<!ELEMENT route-reflector-client EMPTY>

<!ELEMENT route-resolution-information (route-resolution-tree)*>

<!ELEMENT route-resolution-tree (tree-index | nodes | tree-reference-count |
tree-contributing-ribs | tree-policy | node)*>

<!ELEMENT route-summary-information (as-number | router-id | route-table)*>

<!ELEMENT route-table (protocols | table-name | destination-count | total-route-count |
active-route-count | holddown-route-count | hidden-route-count | restart-state | rt)*>

<!ELEMENT route-type (#PCDATA)>

<!ELEMENT route-version (#PCDATA)>

<!ELEMENT router-id (#PCDATA)>

<!ELEMENT router-id-tlv (router-id)*>

<!ELEMENT router-priority (#PCDATA)>

<!ELEMENT rp-family (address-family | rendezvous-point)*>

<!ELEMENT rp-flag-autorp EMPTY>

<!ELEMENT rp-flag-bootstrap EMPTY>

<!ELEMENT rp-flag-embedded-rp EMPTY>

<!ELEMENT rp-flag-static EMPTY>

<!ELEMENT rp-group-state (#PCDATA)>

<!ELEMENT rp-group-timeout (#PCDATA)>

<!ELEMENT rp-interface-device-index (#PCDATA)>

<!ELEMENT rp-interface-device-subunit (#PCDATA)>

<!ELEMENT rpd-time (#PCDATA)>

<!ELEMENT rpf-check-disabled EMPTY>

<!ELEMENT rpf-family (address-family | rpf-table-name | rpf-table-entry-count |
rpf-route)*>

<!ELEMENT rpf-route (prefix | rpf-route-inactive | rpf-route-protocol | interface-name |
rpf-route-neighbor)*>
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<!ELEMENT rpf-route-inactive EMPTY>

<!ELEMENT rpf-route-neighbor (#PCDATA)>

<!ELEMENT rpf-route-protocol (#PCDATA)>

<!ELEMENT rpf-table-entry-count (#PCDATA)>

<!ELEMENT rpf-table-name (#PCDATA)>

<!ELEMENT rptree EMPTY>

<!ELEMENT rsb-count (#PCDATA)>

<!ELEMENT rsvp-error (error-message | error-count | error-count-5seconds)*>

<!ELEMENT rsvp-graceful-restart (restart-status | helper-status |
maximum-helper-restart-time | maximum-helper-recovery-time | restart-time |
recovery-time)*>

<!ELEMENT rsvp-interface (interface-name | rsvp-status | active-control-channel |
control-channel-unusable | index | authentication-flag | aggregate-flag | ack-flag |
protect-flag | hello-interval | forward-rsvp | interface-address | loopback-address |
rsvp-telink | message-statistics | bypass-info | cos-info)*>
<!ATTLIST rsvp-interface junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-interface-information (active-count | rsvp-interface)*>

<!ELEMENT rsvp-interface-replication-information (rsvp-replication-te-link)*>

<!ELEMENT rsvp-lp-backup-lsp-cnt (#PCDATA)>

<!ELEMENT rsvp-lp-backup-route-cnt (#PCDATA)>

<!ELEMENT rsvp-lp-psb-cnt (#PCDATA)>

<!ELEMENT rsvp-message (#PCDATA)>

<!ELEMENT rsvp-neighbor (rsvp-neighbor-address | rsvp-neighbor-interface |
rsvp-neighbor-status | rsvp-neighbor-remote | neighbor-idle | neighbor-up-count |
neighbor-down-count | last-changed-time | hello-interval | hellos-sent | hellos-received |
messages-received | rsvp-neighbor-remote-instance | rsvp-neighbor-local-instance |
rsvp-message | rsvp-refresh-reduct-status | rsvp-refresh-reduct-remote-status |
rsvp-refresh-reduct-ack-status | rsvp-graceful-restart)*>
<!ATTLIST rsvp-neighbor heading CDATA #IMPLIED>
<!ATTLIST rsvp-neighbor junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-neighbor-address (#PCDATA)>

<!ELEMENT rsvp-neighbor-count (#PCDATA)>

<!ELEMENT rsvp-neighbor-information (rsvp-neighbor-count | rsvp-neighbor)*>

<!ELEMENT rsvp-neighbor-interface (#PCDATA)>

<!ELEMENT rsvp-neighbor-local-instance (#PCDATA)>
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<!ELEMENT rsvp-neighbor-remote EMPTY>

<!ELEMENT rsvp-neighbor-remote-instance (#PCDATA)>

<!ELEMENT rsvp-neighbor-replication-information (rsvp-replication-neighbor)*>

<!ELEMENT rsvp-neighbor-status (#PCDATA)>

<!ELEMENT rsvp-nsr-mode (#PCDATA)>

<!ELEMENT rsvp-nsr-state (#PCDATA)>

<!ELEMENT rsvp-path-state-replication-information (rsvp-replication-path-state)*>

<!ELEMENT rsvp-path-status (#PCDATA)>

<!ELEMENT rsvp-refresh-reduct-ack-status (#PCDATA)>

<!ELEMENT rsvp-refresh-reduct-remote-status (#PCDATA)>

<!ELEMENT rsvp-refresh-reduct-status (#PCDATA)>

<!ELEMENT rsvp-replication-neighbor (replication-neighbor-address | neighbor-interface |
neighbor-status | replication-neighbor-up-count | neighbor-flags |
neighbor-replication-sync-status | neighbor-remote-instance | neighbor-local-instance |
rsvp-graceful-restart)*>
<!ATTLIST rsvp-replication-neighbor heading CDATA #IMPLIED>
<!ATTLIST rsvp-replication-neighbor junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-replication-path-state (path-state-address | path-state-interface-id |
path-state-session-id | path-state-id | path-state-self-id | path-state-tag |
path-state-rr-epoch | path-state-resv-msg-id | path-state-nh-type |
path-state-nh-outgoing-interface | path-state-nh-upstream-tag | path-state-nh-te-link-id |
path-state-nh-peer-address | path-state-nh-avoid-address | path-state-nh-ero |
path-state-nh-msg-id)*>
<!ATTLIST rsvp-replication-path-state heading CDATA #IMPLIED>
<!ATTLIST rsvp-replication-path-state junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-replication-resv-state (resv-state-interface-id | resv-state-session-id |
resv-state-self-id)*>
<!ATTLIST rsvp-replication-resv-state heading CDATA #IMPLIED>
<!ATTLIST rsvp-replication-resv-state junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-replication-session (destination-address | source-address | label-in |
path-state-id | session-id | name | replication-state)*>
<!ATTLIST rsvp-replication-session heading CDATA #IMPLIED>
<!ATTLIST rsvp-replication-session junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-replication-te-link (te-link-id | te-link-interface-id |
te-link-reference-count)*>
<!ATTLIST rsvp-replication-te-link heading CDATA #IMPLIED>
<!ATTLIST rsvp-replication-te-link junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-restart-flag (#PCDATA)>

<!ELEMENT rsvp-resv-state-replication-information (rsvp-replication-resv-state)*>
```

<!ELEMENT rsvp-session (destination-address | is-detour | source-address | lsp-state | lsp-pktbytes | bypass-name | no-statistics | route-count | rsb-count | resv-style | label-in | label-out | name | mpls-p2mp-lsp-name | lsp-path-type | lsp-aggregation | graceful-deletion-triggered | source-tna-address | destination-tna-address | bidirectional | upstream-label-in | upstream-label-out | suggested-label-in | suggested-label-out | recovery-label-in | recovery-label-out | psb-lifetime | psb-creation-time | path-mtu | path-mtu-in-kernel | sender-tspec | layer2-tspec | adspec | ct-bw | lsp-diffserv-info | lsp-id | tunnel-id | proto-id | self-id | session-id | is-fastreroute | is-linkprotection | is-nodeprotection | is-soft-preemption | rsvp-path-status | rsvp-lp-backup-route-cnt | rsvp-lp-backup-lsp-cnt | packet-information | explicit-route | record-route | lp-history | rsvp-telink | detour | detour-branch | mpls-lsp)*>
<!ATTLIST rsvp-session junos:style CDATA #IMPLIED>

<!ELEMENT rsvp-session-data (session-type | count | display-count | up-count | down-count | detours | rsvp-session | mpls-p2mp-lsp)*>

<!ELEMENT rsvp-session-information (rsvp-session-data)*>

<!ELEMENT rsvp-session-replication-information (rsvp-replication-session)*>

<!ELEMENT rsvp-statistics-information (message-statistics | rsvp-error)*>

<!ELEMENT rsvp-status (#PCDATA)>

<!ELEMENT rsvp-telink (telink-name | telink-local-id | telink-state | active-reservation | subscription | ct-subscription | static-bandwidth | available-bandwidth | max-available-bandwidth | max-available-description | static-bc-bandwidth | total-reserved-bandwidth | bc | bc-description | ct-class | ct-bw0 | ct-bw1 | ct-bw2 | ct-bw3 | ct-bw4 | ct-bw5 | ct-bw6 | ct-bw7 | high-watermark | preemption-count | soft-preemption-count | soft-preemption-pending | update-threshold | reserved-bandwidth | reserved-ct-bandwidth | detour-bandwidth | overbooked-bandwidth | overbooked-ct-bandwidth)*>

<!ELEMENT rsvp-version (rsvp-status | rsvp-restart-flag | refresh-timer | keep-multiplier | preemption-type | soft-preemption-cleanup-timer | graceful-deletion-timeout | rsvp-nsr-mode | rsvp-nsr-state | rsvp-graceful-restart)*>

<!ELEMENT rsvp-version-information (rsvp-version)*>

<!ELEMENT rsy-queue-addr (#PCDATA)>

<!ELEMENT rsy-queue-instance (#PCDATA)>

<!ELEMENT rsy-queue-more EMPTY>

<!ELEMENT rt (rt-destination | rt-prefix-length | rt-entry-count | rt-announced-count | rt-state | rt-entry | tsi | communities)*>
<!ATTLIST rt junos:style CDATA #IMPLIED>

<!ELEMENT rt-announced-count (#PCDATA)>

<!ELEMENT rt-destination (#PCDATA)>

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<!ELEMENT rt-entry (active-tag | last-active | current-active | protocol-name | preference |
preference2 | route-distinguisher | pmsi | color | rt-isis-level | color2 | rt-isis-downbit |
age | metric | metric2 | med-plus-igp | rt-tag | rt-tag2 | rt-ospf-area | learned-from |
peer-as | local-as | rt-entry-state | inactive-reason | task-name | announce-bits |
announce-tasks | bgp-rt-flag | label-base | label-range | l2vpn-status-vector | vc-label |
mtu | cell-bundle-size | vlan-id | tdm-payload-size | tdm-bitrate | connection-bandwidth |
cac-bandwidth-failure | vpn-label | route-label | bgp-no-label-reason | rtd-flow-dep |
as-path | communities | helper-nhid | helper-refcount | bgp-metric-flags | local-preference
| med | peer-id | cluster-id | originator | attrset | bgp-group-name | deleted |
route-flap-damping | aggregate | gateway | indirect-nh-count | composite-nh-count |
nh-type | nh-index | nh-reference-count | nh-kernel-id | ext-int-intf-index | nh | protocol-nh |
rtrib-primary | rtrib-secondary | backup-pe-group-name | designated-forwarder)*>

<!ELEMENT rt-entry-count (#PCDATA)>

<!ELEMENT rt-entry-state (#PCDATA)>

<!ELEMENT rt-isis-downbit (#PCDATA)>

<!ELEMENT rt-isis-level (#PCDATA)>

<!ELEMENT rt-martian-table-name (#PCDATA)>

<!ELEMENT rt-martians (rt-martian-table-name | route-filter)*>

<!ELEMENT rt-ospf-area (#PCDATA)>

<!ELEMENT rt-policy-name (#PCDATA)>

<!ELEMENT rt-policy-term-action (#PCDATA)>

<!ELEMENT rt-policy-term-name (#PCDATA)>

<!ELEMENT rt-policy-term-result (#PCDATA)>

<!ELEMENT rt-prefix-length (#PCDATA)>

<!ELEMENT rt-ribgroup (rt-ribgroup-name | rt-ribgroup-address | rt-ribgroup-flags |
rt-ribgroup-address-family | rt-ribgroup-refcount | rt-ribgroup-export-name |
rt-ribgroup-import-name | rt-ribgroup-import-policy-name |
rt-ribgroup-import-secondary-name | rt-ribgroup-union-head-name |
rt-ribgroup-union-child-name)*>

<!ELEMENT rt-ribgroup-address (#PCDATA)>

<!ELEMENT rt-ribgroup-address-family (#PCDATA)>

<!ELEMENT rt-ribgroup-export-name (#PCDATA)>

<!ELEMENT rt-ribgroup-flags (#PCDATA)>

<!ELEMENT rt-ribgroup-import-name (#PCDATA)>

<!ELEMENT rt-ribgroup-import-policy-name (#PCDATA)>

<!ELEMENT rt-ribgroup-import-secondary-name (#PCDATA)>
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<!ELEMENT rt-ribgroup-name (#PCDATA)>

<!ELEMENT rt-ribgroup-refcount (#PCDATA)>

<!ELEMENT rt-ribgroup-union-child-name (#PCDATA)>

<!ELEMENT rt-ribgroup-union-head-name (#PCDATA)>

<!ELEMENT rt-route-accepted (#PCDATA)>

<!ELEMENT rt-route-rejected (#PCDATA)>

<!ELEMENT rt-state (#PCDATA)>

<!ELEMENT rt-tag (#PCDATA)>

<!ELEMENT rt-tag2 (#PCDATA)>

<!ELEMENT rt-test-policy (rt-policy-name | rt-route-accepted | rt-route-rejected)*>

<!ELEMENT rt-test-policy-prefix (rt-policy-name | rt-destination | rt-prefix-length |
rt-test-policy-term)*>

<!ELEMENT rt-test-policy-term (rt-policy-term-name | rt-policy-term-result |
rt-policy-term-action)*>

<!ELEMENT rtarget (#PCDATA)>

<!ELEMENT rtarget-mask (#PCDATA)>

<!ELEMENT rtarget-recv-mask (#PCDATA)>

<!ELEMENT rtd-flow-dep (flow-origin | flow-dep-state | flow-ucast-rt)*>

<!ELEMENT rte-instance (instance-name | rte-instance-type | instance-flags |
instance-options | import-policy | export-policy)*>
<!ATTLIST rte-instance junos:style CDATA #IMPLIED>

<!ELEMENT rte-instance-type (#PCDATA)>

<!ELEMENT rte-table (table-name | table-export-on | import-list | table-flags |
table-usage)*>
<!ATTLIST rte-table junos:style CDATA #IMPLIED>

<!ELEMENT rte-target (target-string | family | subaf | import-count | export-count |
import-list | export-list)*>
<!ATTLIST rte-target junos:style CDATA #IMPLIED>

<!ELEMENT rtexport-table-information (rte-table | rte-target | rte-instance)*>

<!ELEMENT rtflow-dep-information (rtflow-dep-table)*>

<!ELEMENT rtflow-dep-table (table-name | fdep-node)*>

<!ELEMENT rtnode-flags (#PCDATA)>

<!ELEMENT rtnode-next-as (#PCDATA)>
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<!ELEMENT rtnode-origin (#PCDATA)>
<!ELEMENT rtnode-refcount (#PCDATA)>
<!ELEMENT rtnode-state (#PCDATA)>
<!ELEMENT rtrib-primary (#PCDATA)>
<!ELEMENT rtrib-secondary (#PCDATA)>
<!ELEMENT runt-header-error (#PCDATA)>
<!ELEMENT sap-listen (sap-listen-group | sap-listen-port)*>
<!ELEMENT sap-listen-group (#PCDATA)>
<!ELEMENT sap-listen-information (sap-listen)*>
<!ELEMENT sap-listen-port (#PCDATA)>
<!ELEMENT scope-name (#PCDATA)>
<!ELEMENT scope-rejects (#PCDATA)>
<!ELEMENT scope-state (#PCDATA)>
<!ELEMENT segments (#PCDATA)>
<!ELEMENT selected-next-hop EMPTY>
<!ELEMENT self EMPTY>
<!ELEMENT self-id (#PCDATA)>
<!ELEMENT send-buffer-size (#PCDATA)>
<!ELEMENT send-count (#PCDATA)>
<!ELEMENT send-mode-ripng (#PCDATA)>
<!ELEMENT send-mode-ripv2 (#PCDATA)>
<!ELEMENT send-state (#PCDATA)>
<!ELEMENT send-time (#PCDATA)>
<!ELEMENT sender-tspec (#PCDATA)>
<!ELEMENT sent-count (#PCDATA)>
<!ELEMENT sequence-number (#PCDATA)>
<!ELEMENT session-address (#PCDATA)>
<!ELEMENT session-announcement (#PCDATA)>
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<!ELEMENT session-attribute (#PCDATA)>

<!ELEMENT session-bandwidth (#PCDATA)>

<!ELEMENT session-connection-data (session-address | session-ttl | session-layers)*>

<!ELEMENT session-description (#PCDATA)>

<!ELEMENT session-email (#PCDATA)>

<!ELEMENT session-encryption-key (#PCDATA)>

<!ELEMENT session-id (#PCDATA)>

<!ELEMENT session-layers (#PCDATA)>

<!ELEMENT session-media (#PCDATA)>

<!ELEMENT session-name (#PCDATA)>

<!ELEMENT session-origin (session-originator-username |
session-originator-address)*>

<!ELEMENT session-originator-address (#PCDATA)>

<!ELEMENT session-originator-username (#PCDATA)>

<!ELEMENT session-phone (#PCDATA)>

<!ELEMENT session-start-time (#PCDATA)>
<!ATTLIST session-start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT session-stop-time (#PCDATA)>
<!ATTLIST session-stop-time junos:seconds CDATA #IMPLIED>

<!ELEMENT session-ttl (#PCDATA)>

<!ELEMENT session-type (#PCDATA)>

<!ELEMENT session-uri (#PCDATA)>

<!ELEMENT session-version (#PCDATA)>

<!ELEMENT setup-priority (#PCDATA)>

<!ELEMENT sham-link-local (#PCDATA)>

<!ELEMENT sham-link-remote (#PCDATA)>

<!ELEMENT short-packets-error (#PCDATA)>

<!ELEMENT signal-type (#PCDATA)>

<!ELEMENT site-id (#PCDATA)>

<!ELEMENT skip-address (#PCDATA)>
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<!ELEMENT smart-optimize-timer (#PCDATA)>

<!ELEMENT snp-queue-drops (#PCDATA)>

<!ELEMENT snp-queue-length (#PCDATA)>

<!ELEMENT snpa (#PCDATA)>

<!ELEMENT soft-preemption-cleanup-timer (#PCDATA)>

<!ELEMENT soft-preemption-count (#PCDATA)>

<!ELEMENT soft-preemption-pending (#PCDATA)>

<!ELEMENT source-address (#PCDATA)>

<!ELEMENT source-family (pim-instance | address-family | pim-source)*>

<!ELEMENT source-tna-address (#PCDATA)>

<!ELEMENT sparse EMPTY>

<!ELEMENT sparse-downstream-interface (pim-interface-name | register-rp |
register-interface-name | pim-interface-state | pim-pseudo-downstream-interface-name |
downstream-neighbor | downstream-assert-neighbor)*>

<!ELEMENT spf-runs (#PCDATA)>

<!ELEMENT spf-trigger-count (#PCDATA)>

<!ELEMENT spt EMPTY>

<!ELEMENT spt-pending EMPTY>

<!ELEMENT standby-flood-status (#PCDATA)>

<!ELEMENT start-time (#PCDATA)>
<!ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT state (#PCDATA)>

<!ELEMENT static-bandwidth (#PCDATA)>

<!ELEMENT static-bc-bandwidth (#PCDATA)>

<!ELEMENT statistic-count (#PCDATA)>

<!ELEMENT statistic-name (#PCDATA)>

<!ELEMENT statistics-family (address-family | pim-statistics-interface)*>

<!ELEMENT status (#PCDATA)>

<!ELEMENT stub-area-mismatch-error (#PCDATA)>

<!ELEMENT subaf (#PCDATA)>
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<!ELEMENT subgroup-id (#PCDATA)>

<!ELEMENT subnet-mismatch-error (#PCDATA)>

<!ELEMENT subscription (#PCDATA)>

<!ELEMENT subtlv-length (#PCDATA)>

<!ELEMENT subtlv-size (#PCDATA)>

<!ELEMENT successful (#PCDATA)>

<!ELEMENT suggested-label-in (#PCDATA)>

<!ELEMENT suggested-label-out (#PCDATA)>

<!ELEMENT suppressed EMPTY>

<!ELEMENT suppressed-external-prefix-count (#PCDATA)>

<!ELEMENT suppressed-internal-prefix-count (#PCDATA)>

<!ELEMENT suppressed-prefix-count (#PCDATA)>

<!ELEMENT switching-capability-descriptor (encoding-type | switching-type |
maximum-lsp-bw0 | maximum-lsp-bw1 | maximum-lsp-bw2 | maximum-lsp-bw3 |
maximum-lsp-bw4 | maximum-lsp-bw5 | maximum-lsp-bw6 | maximum-lsp-bw7 |
minimum-lsp-bw | mtu | tdm-indication)*>
<!ATTLIST switching-capability-descriptor heading CDATA #IMPLIED>

<!ELEMENT switching-granularity (#PCDATA)>

<!ELEMENT switching-type (#PCDATA)>

<!ELEMENT sys-error (#PCDATA)>

<!ELEMENT system-id (#PCDATA)>

<!ELEMENT system-id-length (#PCDATA)>

<!ELEMENT system-name (#PCDATA)>

<!ELEMENT table-export-on (#PCDATA)>

<!ELEMENT table-flags (#PCDATA)>

<!ELEMENT table-name (#PCDATA)>

<!ELEMENT table-usage (#PCDATA)>

<!ELEMENT tag (#PCDATA)>

<!ELEMENT target-string (#PCDATA)>

<!ELEMENT task (task-name | task-no-information | task-timer)*>
```

```
<!ELEMENT task-block (tb-name | tb-size | tb-alloc-size | tb-terse-transient |
tb-terse-fullpage | tb-terse-debug | tb-alloc-blocks | tb-alloc-bytes | tb-max-alloc-blocks |
tb-max-alloc-bytes)*>

<!ELEMENT task-block-list (task-block)*>

<!ELEMENT task-gres-state (#PCDATA)>

<!ELEMENT task-information (task)*>

<!ELEMENT task-lite-page (tlp-name | tlp-alloc-pages | tlp-alloc-bytes |
tlp-max-alloc-pages | tlp-max-alloc-bytes)*>

<!ELEMENT task-lite-page-list (task-lite-page)*>

<!ELEMENT task-malloc (tm-name | tm-allocs | tm-alloc-bytes | tm-max-allocs |
tm-max-alloc-bytes | tm-function-calls)*>

<!ELEMENT task-malloc-list (task-malloc)*>

<!ELEMENT task-memory-allocator-report (task-block-list | task-lite-page-list |
task-memory-total-bytes | task-memory-total-max-bytes)*>

<!ELEMENT task-memory-bss-bytes (#PCDATA)>

<!ELEMENT task-memory-dir-bytes (#PCDATA)>

<!ELEMENT task-memory-dynamic-allocs (#PCDATA)>

<!ELEMENT task-memory-free-size (#PCDATA)>

<!ELEMENT task-memory-in-use-avail (#PCDATA)>

<!ELEMENT task-memory-in-use-size (#PCDATA)>

<!ELEMENT task-memory-information (task-memory-in-use-size |
task-memory-in-use-avail | task-memory-max-size | task-memory-max-avail |
task-memory-max-when | task-memory-free-size | task-memory-overall-report |
task-memory-allocator-report | task-memory-malloc-usage-report |
task-memory-dynamic-allocs | task-memory-max-dynamic-allocs | task-memory-bss-bytes
| task-memory-max-bss-bytes | task-memory-page-data-bytes |
task-memory-max-page-data-bytes | task-memory-dir-bytes | task-memory-max-dir-bytes |
task-memory-total-bytes-in-use | task-memory-total-bytes-percent)*>
<!ATTLIST task-memory-information junos:style CDATA #IMPLIED>

<!ELEMENT task-memory-malloc-usage-report (task-malloc-list | task-memory-total-bytes
| task-memory-total-max-bytes)*>

<!ELEMENT task-memory-max-avail (#PCDATA)>

<!ELEMENT task-memory-max-bss-bytes (#PCDATA)>

<!ELEMENT task-memory-max-dir-bytes (#PCDATA)>

<!ELEMENT task-memory-max-dynamic-allocs (#PCDATA)>

<!ELEMENT task-memory-max-page-data-bytes (#PCDATA)>
```

```
<!ELEMENT task-memory-max-size (#PCDATA)>

<!ELEMENT task-memory-max-when (#PCDATA)>

<!ELEMENT task-memory-overall-report (task-size-block-list | task-memory-stats-list |
task-memory-total-bytes | task-memory-total-max-bytes |
task-memory-total-free-bytes)*>

<!ELEMENT task-memory-page-data-bytes (#PCDATA)>

<!ELEMENT task-memory-stats (tms-name | tms-allocs | tms-mallocs | tms-alloc-bytes |
tms-max-allocs | tms-max-bytes | tms-free-bytes)*>

<!ELEMENT task-memory-stats-list (task-memory-stats)*>

<!ELEMENT task-memory-total-bytes (#PCDATA)>

<!ELEMENT task-memory-total-bytes-in-use (#PCDATA)>

<!ELEMENT task-memory-total-bytes-percent (#PCDATA)>

<!ELEMENT task-memory-total-free-bytes (#PCDATA)>

<!ELEMENT task-memory-total-max-bytes (#PCDATA)>

<!ELEMENT task-name (#PCDATA)>

<!ELEMENT task-no-information EMPTY>

<!ELEMENT task-protocol-replication-name (#PCDATA)>

<!ELEMENT task-protocol-replication-state (#PCDATA)>

<!ELEMENT task-re-mode (#PCDATA)>

<!ELEMENT task-replication-state (task-gres-state | task-re-mode |
task-protocol-replication-state | task-protocol-replication-name)*>

<!ELEMENT task-size-block (tsb-size | tsb-terse-transient | tsb-terse-fullpage | tsb-allocs
| tsb-mallocs | tsb-alloc-bytes | tsb-max-allocs | tsb-max-bytes | tsb-free-bytes)*>

<!ELEMENT task-size-block-list (task-size-block)*>

<!ELEMENT task-timer (timer-name | timer-late | timer-expires | timer-jitter |
timer-interval | timer-flags)*>

<!ELEMENT task-timer-information (task)*>

<!ELEMENT tb-alloc-blocks (#PCDATA)>

<!ELEMENT tb-alloc-bytes (#PCDATA)>

<!ELEMENT tb-alloc-size (#PCDATA)>

<!ELEMENT tb-max-alloc-blocks (#PCDATA)>
```

```
<!ELEMENT tb-max-alloc-bytes (#PCDATA)>

<!ELEMENT tb-name (#PCDATA)>

<!ELEMENT tb-size (#PCDATA)>

<!ELEMENT tb-terse-debug EMPTY>

<!ELEMENT tb-terse-fullpage EMPTY>

<!ELEMENT tb-terse-transient EMPTY>

<!ELEMENT tdm-bitrate (#PCDATA)>

<!ELEMENT tdm-indication (#PCDATA)>

<!ELEMENT tdm-payload-size (#PCDATA)>

<!ELEMENT te-class (#PCDATA)>

<!ELEMENT te-class-map (te-class | traffic-class | te-prio)*>

<!ELEMENT te-link-id (#PCDATA)>

<!ELEMENT te-link-interface-id (#PCDATA)>

<!ELEMENT te-link-reference-count (#PCDATA)>

<!ELEMENT te-metric (#PCDATA)>

<!ELEMENT te-prio (#PCDATA)>

<!ELEMENT te-subtlv (tlv-type-name | tlv-type-value | tlv-length | bytes-left |
formatted-tlv-data)*>

<!ELEMENT ted-database (ted-database-id | ted-database-id-overload |
ted-database-type | ted-database-age | ted-database-link-in | ted-database-link-out |
ted-database-protocol | ted-link | ted-database-lcl-addr)*>
<!ATTLIST ted-database junos:style CDATA #IMPLIED>

<!ELEMENT ted-database-age (#PCDATA)>

<!ELEMENT ted-database-id (#PCDATA)>

<!ELEMENT ted-database-id-overload (#PCDATA)>

<!ELEMENT ted-database-inet-count (#PCDATA)>

<!ELEMENT ted-database-information (ted-database-summary | ted-database)*>

<!ELEMENT ted-database-iso-count (#PCDATA)>

<!ELEMENT ted-database-lcl-addr (ted-lcl-addr)*>

<!ELEMENT ted-database-link-in (#PCDATA)>

<!ELEMENT ted-database-link-out (#PCDATA)>
```

```
<!ELEMENT ted-database-protocol (#PCDATA)>

<!ELEMENT ted-database-summary (ted-database-iso-count |
ted-database-inet-count)*>

<!ELEMENT ted-database-type (#PCDATA)>

<!ELEMENT ted-lcl-addr (#PCDATA)>

<!ELEMENT ted-link (ted-link-from | ted-link-to | ted-link-local-address |
ted-link-remote-address | ted-link-local-ifindex | ted-link-remote-ifindex | admin-groups |
ted-link-metric | ted-link-link-out | ted-link-static-bandwidth |
ted-link-reservable-bandwidth | ted-link-forwarding-adjacency | ted-link-local-bw0 |
ted-link-local-bw1 | ted-link-local-bw2 | ted-link-local-bw3 | ted-link-local-bw4 |
ted-link-local-bw5 | ted-link-local-bw6 | ted-link-local-bw7 | ted-link-avail-bw0 |
ted-link-avail-bw1 | ted-link-avail-bw2 | ted-link-avail-bw3 | ted-link-avail-bw4 |
ted-link-avail-bw5 | ted-link-avail-bw6 | ted-link-avail-bw7 | ted-link-model | ted-link-ct-bw0
| ted-link-ct-bw1 | ted-link-ct-bw2 | ted-link-ct-bw3 | ted-link-ct-bw4 | ted-link-ct-bw5 |
ted-link-ct-bw6 | ted-link-ct-bw7 | switching-capability-descriptor |
ted-link-unreserved-bw-tlv-meaning | ted-link-dste-tlv-meaning)*>
<!ATTLIST ted-link junos:style CDATA #IMPLIED>

<!ELEMENT ted-link-avail-bw0 (#PCDATA)>

<!ELEMENT ted-link-avail-bw1 (#PCDATA)>

<!ELEMENT ted-link-avail-bw2 (#PCDATA)>

<!ELEMENT ted-link-avail-bw3 (#PCDATA)>

<!ELEMENT ted-link-avail-bw4 (#PCDATA)>

<!ELEMENT ted-link-avail-bw5 (#PCDATA)>

<!ELEMENT ted-link-avail-bw6 (#PCDATA)>

<!ELEMENT ted-link-avail-bw7 (#PCDATA)>

<!ELEMENT ted-link-ct-bw0 (#PCDATA)>

<!ELEMENT ted-link-ct-bw1 (#PCDATA)>

<!ELEMENT ted-link-ct-bw2 (#PCDATA)>

<!ELEMENT ted-link-ct-bw3 (#PCDATA)>

<!ELEMENT ted-link-ct-bw4 (#PCDATA)>

<!ELEMENT ted-link-ct-bw5 (#PCDATA)>

<!ELEMENT ted-link-ct-bw6 (#PCDATA)>

<!ELEMENT ted-link-ct-bw7 (#PCDATA)>

<!ELEMENT ted-link-dste-tlv-meaning (#PCDATA)>
```

```
<!ELEMENT ted-link-forwarding-adjacency EMPTY>

<!ELEMENT ted-link-from (#PCDATA)>

<!ELEMENT ted-link-information (ted-link)*>

<!ELEMENT ted-link-link-out (#PCDATA)>

<!ELEMENT ted-link-local-address (#PCDATA)>

<!ELEMENT ted-link-local-bw0 (#PCDATA)>

<!ELEMENT ted-link-local-bw1 (#PCDATA)>

<!ELEMENT ted-link-local-bw2 (#PCDATA)>

<!ELEMENT ted-link-local-bw3 (#PCDATA)>

<!ELEMENT ted-link-local-bw4 (#PCDATA)>

<!ELEMENT ted-link-local-bw5 (#PCDATA)>

<!ELEMENT ted-link-local-bw6 (#PCDATA)>

<!ELEMENT ted-link-local-bw7 (#PCDATA)>

<!ELEMENT ted-link-local-ifindex (#PCDATA)>

<!ELEMENT ted-link-metric (#PCDATA)>

<!ELEMENT ted-link-model (#PCDATA)>

<!ELEMENT ted-link-remote-address (#PCDATA)>

<!ELEMENT ted-link-remote-ifindex (#PCDATA)>

<!ELEMENT ted-link-reservable-bandwidth (#PCDATA)>

<!ELEMENT ted-link-static-bandwidth (#PCDATA)>

<!ELEMENT ted-link-to (#PCDATA)>

<!ELEMENT ted-link-unreserved-bw-tlv-meaning (#PCDATA)>

<!ELEMENT ted-protocol (ted-protocol-name | ted-protocol-credibility |
ted-protocol-self-node)*>

<!ELEMENT ted-protocol-credibility (#PCDATA)>

<!ELEMENT ted-protocol-information (ted-protocol)*>

<!ELEMENT ted-protocol-name (#PCDATA)>

<!ELEMENT ted-protocol-self-node (#PCDATA)>

<!ELEMENT telink-id (#PCDATA)>
```

<!ELEMENT telink-local-id (#PCDATA)>

<!ELEMENT telink-name (#PCDATA)>

<!ELEMENT telink-state (#PCDATA)>

<!ELEMENT terse-rpt EMPTY>

<!ELEMENT terse-sparse EMPTY>

<!ELEMENT terse-wc EMPTY>

<!ELEMENT time (#PCDATA)>

<!ELEMENT time-to-adjust (#PCDATA)>

<!ELEMENT timer (#PCDATA)>

<!ELEMENT timer-expires (#PCDATA)>

<!ELEMENT timer-flags (#PCDATA)>

<!ELEMENT timer-interval (#PCDATA)>

<!ELEMENT timer-jitter (#PCDATA)>

<!ELEMENT timer-late EMPTY>

<!ELEMENT timer-name (#PCDATA)>

<!ELEMENT timestamp (#PCDATA)>

<!ELEMENT title (#PCDATA)>

<!ELEMENT tlp-alloc-bytes (#PCDATA)>

<!ELEMENT tlp-alloc-pages (#PCDATA)>

<!ELEMENT tlp-max-alloc-bytes (#PCDATA)>

<!ELEMENT tlp-max-alloc-pages (#PCDATA)>

<!ELEMENT tlp-name (#PCDATA)>

<!ELEMENT tlv-block (tlv-type-name | tlv-type-value | tlv-length | bytes-left | formatted-tlv-data)*>

<!ELEMENT tlv-grace-type-name (#PCDATA)>

<!ELEMENT tlv-grace-value (#PCDATA)>

<!ELEMENT tlv-length (#PCDATA)>

<!ELEMENT tlv-size (#PCDATA)>

<!ELEMENT tlv-stragglers (bytes-left)*>

```
<!ELEMENT tlv-type-name (#PCDATA)>
<!ELEMENT tlv-type-value (#PCDATA)>
<!ELEMENT tm-alloc-bytes (#PCDATA)>
<!ELEMENT tm-allocs (#PCDATA)>
<!ELEMENT tm-function-calls (#PCDATA)>
<!ELEMENT tm-max-alloc-bytes (#PCDATA)>
<!ELEMENT tm-max-allocs (#PCDATA)>
<!ELEMENT tm-name (#PCDATA)>
<!ELEMENT tms-alloc-bytes (#PCDATA)>
<!ELEMENT tms-allocs (#PCDATA)>
<!ELEMENT tms-free-bytes (#PCDATA)>
<!ELEMENT tms-mallocs (#PCDATA)>
<!ELEMENT tms-max-allocs (#PCDATA)>
<!ELEMENT tms-max-bytes (#PCDATA)>
<!ELEMENT tms-name (#PCDATA)>
<!ELEMENT to (#PCDATA)>
<!ELEMENT total-bypass (#PCDATA)>
<!ELEMENT total-database-summaries (#PCDATA)>
<!ELEMENT total-external-prefix-count (#PCDATA)>
<!ELEMENT total-internal-prefix-count (#PCDATA)>
<!ELEMENT total-linkstate-request (#PCDATA)>
<!ELEMENT total-paths (#PCDATA)>
<!ELEMENT total-prefix-count (#PCDATA)>
<!ELEMENT total-reserved-bandwidth (#PCDATA)>
<!ELEMENT total-retransmits (#PCDATA)>
<!ELEMENT total-route-count (#PCDATA)>
<!ELEMENT total-time (#PCDATA)>
<!ELEMENT totals-information (packets-received | packets-sent)*>
<!ELEMENT tracing-information (flags | filename | filesize | filelimit)*>
```

<!ELEMENT track-item (#PCDATA)>

<!ELEMENT traffic-class (#PCDATA)>

<!ELEMENT traffic-stats-interval (#PCDATA)>

<!ELEMENT transition-count (#PCDATA)>

<!ELEMENT transitions (#PCDATA)>

<!ELEMENT transmission-status (transmit-count | message | interface-name | transmit-time)*>

<!ELEMENT transmit-count (#PCDATA)>

<!ELEMENT transmit-lsp-count (#PCDATA)>

<!ELEMENT transmit-time (#PCDATA)>
<!ATTLIST transmit-time junos:seconds CDATA #IMPLIED>

<!ELEMENT tree-contributing-ribs (#PCDATA)>

<!ELEMENT tree-index (#PCDATA)>

<!ELEMENT tree-policy (#PCDATA)>

<!ELEMENT tree-reference-count (#PCDATA)>

<!ELEMENT truncated-packets-error (#PCDATA)>

<!ELEMENT tsb-alloc-bytes (#PCDATA)>

<!ELEMENT tsb-allocs (#PCDATA)>

<!ELEMENT tsb-free-bytes (#PCDATA)>

<!ELEMENT tsb-mallocs (#PCDATA)>

<!ELEMENT tsb-max-allocs (#PCDATA)>

<!ELEMENT tsb-max-bytes (#PCDATA)>

<!ELEMENT tsb-size (#PCDATA)>

<!ELEMENT tsb-terse-fullpage EMPTY>

<!ELEMENT tsb-terse-transient EMPTY>

<!ELEMENT tsi (#PCDATA)>

<!ELEMENT tunnel-destination (#PCDATA)>

<!ELEMENT tunnel-expiry (#PCDATA)>

<!ELEMENT tunnel-id (#PCDATA)>

```
<!ELEMENT tunnel-local-address (#PCDATA)>

<!ELEMENT tunnel-nexthop (tunnel-nh-type | tunnel-nh-src | via | tunnel-nh-state |
tunnel-nh-reason)*>

<!ELEMENT tunnel-nh-reason (#PCDATA)>

<!ELEMENT tunnel-nh-src (#PCDATA)>

<!ELEMENT tunnel-nh-state (#PCDATA)>

<!ELEMENT tunnel-nh-type (#PCDATA)>

<!ELEMENT tunnel-reference-count (#PCDATA)>

<!ELEMENT tunnel-remote-address (#PCDATA)>

<!ELEMENT tunnel-state (#PCDATA)>

<!ELEMENT tunnel-ttl (#PCDATA)>

<!ELEMENT two-way-lsp-id (#PCDATA)>

<!ELEMENT tx-rate (#PCDATA)>

<!ELEMENT tx-rate-percent (#PCDATA)>

<!ELEMENT type (#PCDATA)>

<!ELEMENT type-value (#PCDATA)>

<!ELEMENT type7 EMPTY>

<!ELEMENT uflags (#PCDATA)>

<!ELEMENT unconfigured-peer-count (#PCDATA)>

<!ELEMENT unconfigured-peers (route-filter)*>

<!ELEMENT unicast-bytes (#PCDATA)>

<!ELEMENT unicast-packets (#PCDATA)>

<!ELEMENT unknown-local-data (#PCDATA)>

<!ELEMENT unknown-tlv (isis-tlv-type | tlv-length)*>

<!ELEMENT up-count (#PCDATA)>

<!ELEMENT up-transitions (#PCDATA)>

<!ELEMENT update-send-count (#PCDATA)>

<!ELEMENT update-threshold (#PCDATA)>

<!ELEMENT upstream-group (multicast-group-address)*>
```

```
<!ELEMENT upstream-interface-name (#PCDATA)>

<!ELEMENT upstream-label-in (#PCDATA)>

<!ELEMENT upstream-label-out (#PCDATA)>

<!ELEMENT upstream-neighbor (#PCDATA)>

<!ELEMENT upstream-neighbor-rpf-origin (#PCDATA)>

<!ELEMENT upstream-protocol (#PCDATA)>

<!ELEMENT upstream-protocol-name (#PCDATA)>

<!ELEMENT upstream-state-flags (none | local-source | local-rp | join-to-rp |
join-to-source | prune-to-rp | prune-to-source)*>

<!ELEMENT usy-addr (#PCDATA)>

<!ELEMENT usy-elapsed (#PCDATA)>
<!ATTLIST usy-elapsed junos:seconds CDATA #IMPLIED>

<!ELEMENT usy-flags (#PCDATA)>

<!ELEMENT usy-iid (#PCDATA)>

<!ELEMENT usy-more EMPTY>

<!ELEMENT vc-down-count (#PCDATA)>

<!ELEMENT vc-id (#PCDATA)>

<!ELEMENT vc-label (#PCDATA)>

<!ELEMENT vc-up-count (#PCDATA)>

<!ELEMENT via (#PCDATA)>

<!ELEMENT virtual-link-destination (#PCDATA)>

<!ELEMENT virtual-link-error (#PCDATA)>

<!ELEMENT virtual-link-transit-area (#PCDATA)>

<!ELEMENT vlan-id (#PCDATA)>

<!ELEMENT vpls-auto-site-repository (route-distinguisher | instance-id | local-site-id |
auto-site-count | auto-site-repository-state)*>

<!ELEMENT vpls-auto-site-repository-information (vpls-auto-site-repository)*>

<!ELEMENT vpls-bgp-label-repository-information
(vpls-bgp-route-distinguisher-information)*>

<!ELEMENT vpls-bgp-route-distinguisher-information (route-distinguisher | instance-id |
l2vpn-nlri-advertisement)*>
```

<!ELEMENT vpls-connection-information (instance)*>

<!ELEMENT vpls-dyn-instance-name (#PCDATA)>

<!ELEMENT vpls-dyn-interface-name (#PCDATA)>

<!ELEMENT vpls-dyn-prof-session-information (vpls-dyn-session-entry)*>

<!ELEMENT vpls-dyn-profile-name (#PCDATA)>

<!ELEMENT vpls-dyn-session-entry (vpls-dyn-session-id | vpls-dyn-profile-name | vpls-dyn-interface-name | vpls-dyn-instance-name)*>

<!ELEMENT vpls-dyn-session-id (#PCDATA)>

<!ELEMENT vpls-dynamic-interface-repository (instance-id | local-site-id | remote-site-id | interface-name | local-interface-index | vpls-label | interface-repository-state | mesh-group-id)*>

<!ELEMENT vpls-dynamic-interface-repository-information (vpls-dynamic-interface-repository | vpls-ldp-dynamic-interface-repository-entity)*>

<!ELEMENT vpls-egress-p2mp-branch-lsp-name (#PCDATA)>

<!ELEMENT vpls-egress-p2mp-branch-lsp-state (#PCDATA)>

<!ELEMENT vpls-id (#PCDATA)>

<!ELEMENT vpls-ingress-p2mp-branch-lsp-name (#PCDATA)>

<!ELEMENT vpls-ingress-p2mp-branch-lsp-state (#PCDATA)>

<!ELEMENT vpls-ingress-p2mp-lsp-name (#PCDATA)>

<!ELEMENT vpls-label (#PCDATA)>

<!ELEMENT vpls-ldp-dynamic-interface-repository (vpls-id | neighbor-id | interface-name | vpls-label | ifl-repository-state | mesh-group-id)*>

<!ELEMENT vpls-ldp-dynamic-interface-repository-entity (instance | vpls-ldp-dynamic-interface-repository)*>

<!ELEMENT vpls-ldp-label-repository (neighbor-id | vpls-id | vpls-label | label-repository-state)*>

<!ELEMENT vpls-ldp-label-repository-entity (instance-name | vpls-ldp-label-repository)*>

<!ELEMENT vpls-ldp-label-repository-information (vpls-ldp-label-repository-entity)*>

<!ELEMENT vpls-protocol-state (vpls-signaling-protocol-identifier | num-local-interfaces | num-local-interfaces-up | irb-present | mesh-group-count | mesh-group-up-count | mesh-group-interfaces | interface | mesh-group-connection | reference-site)*>

<!ELEMENT vpls-rsvp-te-ingress-p2mp-lsp (vpls-ingress-p2mp-lsp-name | vpls-rsvp-te-p2mp-flood-nexthop-id)*>

<!ELEMENT vpls-rsvp-te-p2mp-flood-nexthop-id (#PCDATA)>

```
<!ELEMENT vpls-rsvp-te-p2mp-lsp-information (vpls-ingress-p2mp-branch-lsp-name |
vpls-ingress-p2mp-branch-lsp-state | vpls-egress-p2mp-branch-lsp-name |
vpls-egress-p2mp-branch-lsp-state)*>

<!ELEMENT vpls-signaling-protocol-identifier (#PCDATA)>

<!ELEMENT vpls-statistics-information (instance | interface-statistics)*>

<!ELEMENT vpn-label (#PCDATA)>

<!ELEMENT vpn-rib-state (#PCDATA)>

<!ELEMENT vpnlabel-nh (#PCDATA)>

<!ELEMENT vrf-export (#PCDATA)>

<!ELEMENT vrf-export-target (#PCDATA)>

<!ELEMENT vrf-import (#PCDATA)>

<!ELEMENT vrf-import-target (#PCDATA)>

<!ELEMENT vrrp-advertisement-sent-time (#PCDATA)>
<!ATTLIST vrrp-advertisement-sent-time junos:seconds CDATA #IMPLIED>

<!ELEMENT vrrp-advertisements-received (#PCDATA)>

<!ELEMENT vrrp-advertisements-sent (#PCDATA)>

<!ELEMENT vrrp-group (vrrp-group-id | vrrp-advertisements-sent |
vrrp-advertisement-sent-time | vrrp-solicits-received | vrrp-solicit-receive-time |
vrrp-advertisements-received)*>

<!ELEMENT vrrp-group-id (#PCDATA)>

<!ELEMENT vrrp-solicit-receive-time (#PCDATA)>
<!ATTLIST vrrp-solicit-receive-time junos:seconds CDATA #IMPLIED>

<!ELEMENT vrrp-solicits-received (#PCDATA)>

<!ELEMENT warning-percentage (#PCDATA)>

<!ELEMENT weight (#PCDATA)>

<!ELEMENT wildcard EMPTY>

<!ELEMENT working-status (#PCDATA)>
```

Chapter 57

DTD for Routing and Forwarding Table Response Tags

This chapter contains the XML Extensible Markup Language (XML) document type definition (DTD) called junos-rtinfo.dtd, which lists the JUNOS XML tags that contain routing and forwarding table information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-rtinfo. To review reference pages for the tags, see "Summary of Routing and Forwarding Table Response Tags" on page 1385.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-rtinfo.dtd –>

<!ELEMENT address-family (#PCDATA)>

<!ELEMENT address-family-number (#PCDATA)>

<!ELEMENT alt-fwdnh-index (#PCDATA)>

<!ELEMENT bd-name (#PCDATA)>

<!ELEMENT bridge-mac-destination-address-statistics (packet-count | byte-count)*>

<!ELEMENT bridge-mac-source-address-statistics (packet-count | byte-count)*>

<!ELEMENT bridge-table-deleted EMPTY>

<!ELEMENT byte-count (#PCDATA)>

<!ELEMENT destination-type (#PCDATA)>

<!ELEMENT epoch (#PCDATA)>

<!ELEMENT forwarding-table-information (route-table)*>

<!ELEMENT ifl-generation (#PCDATA)>

<!ELEMENT l2al-rtflags (#PCDATA)>

<!ELEMENT learn-mask (#PCDATA)>

<!ELEMENT learn-vlan (#PCDATA)>
```

<!ELEMENT logical-system-name (#PCDATA)>

<!ELEMENT mac-sequence-number (#PCDATA)>

<!ELEMENT nh (to | nh-type | nh-index | nh-reference-count | nh-cfi-index | via | nh-weight | nh-balance | nh-uflags | nh-composite-num-nhs | nh-composite-nh-index | nh-composite-function | nh-composite-num-derived-nhs | nh-composite-derived-nh-index | alt-fwdnh-index | nh-l3-interface | nh-l2-interface)*>

<!ELEMENT nh-balance (#PCDATA)>

<!ELEMENT nh-cfi-index (#PCDATA)>

<!ELEMENT nh-composite-derived-nh-index (#PCDATA)>

<!ELEMENT nh-composite-function (#PCDATA)>

<!ELEMENT nh-composite-nh-index (#PCDATA)>

<!ELEMENT nh-composite-num-derived-nhs (#PCDATA)>

<!ELEMENT nh-composite-num-nhs (#PCDATA)>

<!ELEMENT nh-index (#PCDATA)>

<!ELEMENT nh-l2-interface (nh-l2-interface-name)*>

<!ELEMENT nh-l2-interface-name (#PCDATA)>

<!ELEMENT nh-l3-interface (#PCDATA)>

<!ELEMENT nh-reference-count (#PCDATA)>

<!ELEMENT nh-type (#PCDATA)>

<!ELEMENT nh-uflags (#PCDATA)>

<!ELEMENT nh-weight (#PCDATA)>

<!ELEMENT packet-count (#PCDATA)>

<!ELEMENT route-count (#PCDATA)>

<!ELEMENT route-flags (#PCDATA)>

<!ELEMENT route-interface-index (#PCDATA)>

<!ELEMENT route-reference-count (#PCDATA)>

<!ELEMENT route-table (logical-system-name | table-name | bd-name | route-table-deleted | bridge-table-deleted | address-family | address-family-number | rt-entry | route-table-summary)*>

<!ELEMENT route-table-deleted EMPTY>

<!ELEMENT route-table-summary (route-table-type | route-count)*>

```
<!ELEMENT route-table-type (#PCDATA)>

<!ELEMENT rpf-information (via)*>

<!ELEMENT rt-destination (#PCDATA)>

<!ELEMENT rt-entry (rt-destination | learn-vlan | destination-type | route-reference-count |
route-interface-index | ifl-generation | epoch | mac-sequence-number | learn-mask |
l2al-rtflags | route-flags | nh | rpf-information | vpls-mac-source-address-statistics |
vpls-mac-destination-address-statistics | bridge-mac-source-address-statistics |
bridge-mac-destination-address-statistics)*>
<!ATTLIST rt-entry junos:style CDATA #IMPLIED>

<!ELEMENT table-name (#PCDATA)>

<!ELEMENT to (#PCDATA)>

<!ELEMENT via (#PCDATA)>

<!ELEMENT vpls-mac-destination-address-statistics (packet-count | byte-count)*>

<!ELEMENT vpls-mac-source-address-statistics (packet-count | byte-count)*>
```

Chapter 58

DTD for RPM Response Tags

This chapter contains the XML Extensible Markup Language (XML) document type definition (DTD) called junos-rpm.dtd, which lists the JUNOS XML tags that contain real-time performance monitoring (RPM) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-rpm. To review reference pages for the tags, see "Summary of RPM Response Tags" on page 1789.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-rpm.dtd –>

<!ELEMENT accept-sessions-sent (#PCDATA)>

<!ELEMENT active-servers (configured-servers)*>

<!ELEMENT authentication-mode (#PCDATA)>

<!ELEMENT avg-delay (#PCDATA)>
<!ATTLIST avg-delay junos:format CDATA #IMPLIED>

<!ELEMENT client-address (#PCDATA)>

<!ELEMENT client-port (#PCDATA)>

<!ELEMENT configured-servers (protocol | port | destination-interface)*>

<!ELEMENT connection (connection-id | client-address | client-port | server-address |
server-port | session-count | authentication-mode)*>

<!ELEMENT connection-id (#PCDATA)>

<!ELEMENT delay-thresh (#PCDATA)>

<!ELEMENT destination-interface (#PCDATA)>

<!ELEMENT egress (#PCDATA)>

<!ELEMENT egress-interarrival-jitter (#PCDATA)>

<!ELEMENT egress-jitter (#PCDATA)>

<!ELEMENT egress-jitter-thresh (#PCDATA)>

<!ELEMENT egress-stddev-thresh (#PCDATA)>
```

```
<!ELEMENT egress-thresh (#PCDATA)>

<!ELEMENT hardware-timestamp-status (#PCDATA)>

<!ELEMENT history-results (history-test-results)*>

<!ELEMENT history-test-results (owner | test-name | target-address | target-url |
source-address | destination-interface | probe-type | probe-single-results |
probe-test-current-results | loss-thresh-total | loss-thresh-succ | delay-thresh |
jitter-thresh | stddev-thresh | egress-thresh | egress-jitter-thresh | ingress-thresh |
ingress-jitter-thresh)*>
<!ATTLIST history-test-results junos:style CDATA #IMPLIED>

<!ELEMENT ingress (#PCDATA)>

<!ELEMENT ingress-interarrival-jitter (#PCDATA)>

<!ELEMENT ingress-jitter (#PCDATA)>

<!ELEMENT ingress-jitter-thresh (#PCDATA)>

<!ELEMENT ingress-stddev-thresh (#PCDATA)>

<!ELEMENT ingress-thresh (#PCDATA)>

<!ELEMENT internal-error (#PCDATA)>

<!ELEMENT ip-version (#PCDATA)>

<!ELEMENT jitter-delay (#PCDATA)>
<!ATTLIST jitter-delay junos:format CDATA #IMPLIED>

<!ELEMENT jitter-thresh (#PCDATA)>

<!ELEMENT last-sequence-number-received (#PCDATA)>

<!ELEMENT last-sequence-number-sent (#PCDATA)>

<!ELEMENT last-test-time (#PCDATA)>
<!ATTLIST last-test-time junos:seconds CDATA #IMPLIED>

<!ELEMENT loss-percentage (#PCDATA)>
<!ATTLIST loss-percentage junos:format CDATA #IMPLIED>

<!ELEMENT loss-thresh-succ (#PCDATA)>

<!ELEMENT loss-thresh-total (#PCDATA)>

<!ELEMENT max-delay (#PCDATA)>
<!ATTLIST max-delay junos:format CDATA #IMPLIED>

<!ELEMENT min-delay (#PCDATA)>
<!ATTLIST min-delay junos:format CDATA #IMPLIED>

<!ELEMENT owner (#PCDATA)>
```

```
<!ELEMENT packet-malformed (#PCDATA)>

<!ELEMENT packet-statistics (request-sessions-received | accept-sessions-sent |
start-sessions-received | stop-sessions-received | test-packets-received |
test-packets-reflected | last-sequence-number-received | last-sequence-number-sent |
test-packets-dropped | test-packets-dropped-details)*>

<!ELEMENT packet-unsupported (#PCDATA)>

<!ELEMENT padding-length (#PCDATA)>

<!ELEMENT port (#PCDATA)>

<!ELEMENT probe-last-test-info (last-test-time)*>

<!ELEMENT probe-last-test-results (probe-test-generic-results)*>

<!ELEMENT probe-responses (#PCDATA)>

<!ELEMENT probe-results (probe-test-results)*>

<!ELEMENT probe-results-type (#PCDATA)>

<!ELEMENT probe-single-results (owner | test-name | probe-time | probe-status |
hardware-timestamp-status | rtt | ingress | egress | egress-jitter | ingress-jitter |
round-trip-jitter | egress-interarrival-jitter | ingress-interarrival-jitter |
round-trip-interarrival-jitter)*>
<!ATTLIST probe-single-results junos:style CDATA #IMPLIED>

<!ELEMENT probe-status (#PCDATA)>

<!ELEMENT probe-summary-results (probe-results-type | min-delay | max-delay |
avg-delay | jitter-delay | stddev-delay | sum-delay | samples)*>

<!ELEMENT probe-test-current-results (probe-test-generic-results)*>

<!ELEMENT probe-test-egress (probe-summary-results)*>

<!ELEMENT probe-test-generic-results (probes-sent | probe-responses | loss-percentage
| results-scope | probe-last-test-info | probe-test-rtt | probe-test-egress |
probe-test-ingress | probe-test-positive-egress-jitter | probe-test-negative-egress-jitter |
probe-test-positive-ingress-jitter | probe-test-negative-ingress-jitter |
probe-test-positive-round-trip-jitter | probe-test-negative-round-trip-jitter)*>

<!ELEMENT probe-test-global-results (probe-test-generic-results)*>

<!ELEMENT probe-test-ingress (probe-summary-results)*>

<!ELEMENT probe-test-moving-results (probe-test-generic-results)*>

<!ELEMENT probe-test-negative-egress-jitter (probe-summary-results)*>

<!ELEMENT probe-test-negative-ingress-jitter (probe-summary-results)*>

<!ELEMENT probe-test-negative-round-trip-jitter (probe-summary-results)*>

<!ELEMENT probe-test-positive-egress-jitter (probe-summary-results)*>
```

```
<!ELEMENT probe-test-positive-ingress-jitter (probe-summary-results)*>

<!ELEMENT probe-test-positive-round-trip-jitter (probe-summary-results)*>

<!ELEMENT probe-test-results (owner | test-name | target-address | target-url |
source-address | destination-interface | probe-type | test-size | routing-instance-name |
loss-thresh-total | loss-thresh-succ | delay-thresh | jitter-thresh | stddev-thresh |
egress-thresh | egress-jitter-thresh | egress-stddev-thresh | ingress-thresh |
ingress-jitter-thresh | ingress-stddev-thresh | probe-single-results |
probe-test-current-results | probe-last-test-results | probe-test-moving-results |
probe-test-global-results)*>

<!ELEMENT probe-test-rtt (probe-summary-results)*>

<!ELEMENT probe-time (#PCDATA)>
<!ATTLIST probe-time junos:seconds CDATA #IMPLIED>

<!ELEMENT probe-type (#PCDATA)>

<!ELEMENT probes-sent (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>

<!ELEMENT reflector-address (#PCDATA)>

<!ELEMENT reflector-port (#PCDATA)>

<!ELEMENT request-sessions-received (#PCDATA)>

<!ELEMENT results-scope (#PCDATA)>

<!ELEMENT round-trip-interarrival-jitter (#PCDATA)>

<!ELEMENT round-trip-jitter (#PCDATA)>

<!ELEMENT routing-instance-name (#PCDATA)>

<!ELEMENT rtt (#PCDATA)>

<!ELEMENT samples (#PCDATA)>
<!ATTLIST samples junos:format CDATA #IMPLIED>

<!ELEMENT sender-address (#PCDATA)>

<!ELEMENT sender-port (#PCDATA)>

<!ELEMENT server (session)*>

<!ELEMENT server-address (#PCDATA)>

<!ELEMENT server-port (#PCDATA)>

<!ELEMENT server-statistics (packet-statistics)*>
```

```
<!ELEMENT session (session-id | connection-id | sender-address | sender-port |
reflector-address | reflector-port | session-state | authentication-mode | ip-version |
padding-length | start-time | timeout | packet-statistics)*>
<!ATTLIST session junos:style CDATA #IMPLIED>

<!ELEMENT session-count (#PCDATA)>

<!ELEMENT session-id (#PCDATA)>

<!ELEMENT session-nonexist (#PCDATA)>

<!ELEMENT session-notactive (#PCDATA)>

<!ELEMENT session-state (#PCDATA)>

<!ELEMENT source-address (#PCDATA)>

<!ELEMENT start-sessions-received (#PCDATA)>

<!ELEMENT start-time (#PCDATA)>

<!ELEMENT stddev-delay (#PCDATA)>
<!ATTLIST stddev-delay junos:format CDATA #IMPLIED>

<!ELEMENT stddev-thresh (#PCDATA)>

<!ELEMENT stop-sessions-received (#PCDATA)>

<!ELEMENT sum-delay (#PCDATA)>
<!ATTLIST sum-delay junos:format CDATA #IMPLIED>

<!ELEMENT target-address (#PCDATA)>

<!ELEMENT target-url (#PCDATA)>

<!ELEMENT test-name (#PCDATA)>

<!ELEMENT test-packets-dropped (#PCDATA)>

<!ELEMENT test-packets-dropped-details (session-nonexist | session-notactive |
packet-unsupported | packet-malformed | internal-error)*>

<!ELEMENT test-packets-received (#PCDATA)>

<!ELEMENT test-packets-reflected (#PCDATA)>

<!ELEMENT test-size (#PCDATA)>
<!ATTLIST test-size junos:format CDATA #IMPLIED>

<!ELEMENT timeout (#PCDATA)>

<!ELEMENT twamp-server-information (connection | server | server-statistics)*>
```

Chapter 59

DTD for SDX Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-sdx.dtd, which lists the JUNOS XML tags that contain Service Deployment System (SDX) information for the JUNOS Software. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-sdx. To review reference pages for the tags, see "Summary of SDX Response Tags" on page 1806.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-sdx.dtd –>

<!ELEMENT address (#PCDATA)>

<!ELEMENT connection-status (state | address | port | date-time)*>

<!ELEMENT date-time (#PCDATA)>
<!ATTLIST date-time junos:seconds CDATA #IMPLIED>

<!ELEMENT elapsed-time (#PCDATA)>

<!ELEMENT interval (#PCDATA)>

<!ELEMENT keepalive-count (#PCDATA)>

<!ELEMENT keepalive-information (interval | keepalive-count | elapsed-time)*>

<!ELEMENT notification-count (#PCDATA)>

<!ELEMENT notification-information (notification-count | elapsed-time)*>

<!ELEMENT peer-information (elapsed-time)*>

<!ELEMENT port (#PCDATA)>

<!ELEMENT sdx-information (unconfigured | connection-status | keepalive-information |
notification-information | peer-information)*>

<!ELEMENT state (#PCDATA)>

<!ELEMENT unconfigured EMPTY>
```

Chapter 60

DTD for Secpolinfo Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-secpolinfo.dtd, which lists the JUNOS XML tags that contain JUNOS Secpolinfo resource utilization information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-secpolinfo. To review reference pages for the tags, see "Summary of Secpolinfo Resource Utilization Response Tags" on page 1816.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-secpolinfo.dtd –>

<!ELEMENT area (#PCDATA)>

<!ELEMENT current (#PCDATA)>
<!ATTLIST current junos:format CDATA #IMPLIED>

<!ELEMENT maximum (#PCDATA)>
<!ATTLIST maximum junos:format CDATA #IMPLIED>

<!ELEMENT resource (area | current | maximum)*>

<!ELEMENT resource-utilization (resource)*>

<!ELEMENT secpolinfo-policy (secpolinfo-policy-provider-prefix |
secpolinfo-policy-provider-id | resource-utilization)*>
<!ATTLIST secpolinfo-policy junos:style CDATA #IMPLIED>

<!ELEMENT secpolinfo-policy-information (secpolinfo-policy)*>

<!ELEMENT secpolinfo-policy-provider-id (#PCDATA)>

<!ELEMENT secpolinfo-policy-provider-prefix (#PCDATA)>
```

Chapter 61

DTD for Services Accounting Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-services-accounting.dtd, which lists the JUNOS XML tags that contain services accounting records. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-services-accounting. To review reference pages for the tags, see "Summary of Services Accounting Response Tags" on page 1817.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-services-accounting.dtd –>

<!ELEMENT active-flows (#PCDATA)>

<!ELEMENT active-timeout-failures (#PCDATA)>

<!ELEMENT allocation-count (#PCDATA)>

<!ELEMENT allocations-per-second (#PCDATA)>

<!ELEMENT byte-count (#PCDATA)>

<!ELEMENT destination-address (#PCDATA)>

<!ELEMENT destination-as (#PCDATA)>

<!ELEMENT destination-ipv6-address (#PCDATA)>

<!ELEMENT destination-mask (#PCDATA)>

<!ELEMENT destination-port (#PCDATA)>
<!ATTLIST destination-port junos:format CDATA #IMPLIED>

<!ELEMENT destination-prefix-length (#PCDATA)>

<!ELEMENT detail-entry (tos | protocol | tcp-flags | source-address | source-prefix-length
| destination-address | destination-prefix-length | source-port | destination-port |
input-snmp-interface-index | output-snmp-interface-index | input-interface-name |
output-interface-name | source-as | destination-as | start-time | end-time | packet-count
| byte-count | last-active-timeout | source-mask | destination-mask | icmp-type |
mpls-label-1 | mpls-label-2 | mpls-label-3 | source-ipv6-address |
destination-ipv6-address | flow-count)*>
```

```
<!ELEMENT end-time (#PCDATA)>
<!ATTLIST end-time junos:seconds CDATA #IMPLIED>

<!ELEMENT error-allocation-failures (#PCDATA)>

<!ELEMENT error-bytes-per-second-overload (#PCDATA)>

<!ELEMENT error-free-failures (#PCDATA)>

<!ELEMENT error-free-list-failures (#PCDATA)>

<!ELEMENT error-information (error-packets-dropped-no-memory |
error-packets-dropped-not-ip | error-packets-dropped-not-ipv4 | error-packets-too-small |
error-allocation-failures | error-free-failures | error-free-list-failures |
error-memory-warning | error-memory-overload | error-packets-per-second-overload |
error-bytes-per-second-overload)*>

<!ELEMENT error-memory-overload (#PCDATA)>

<!ELEMENT error-memory-warning (#PCDATA)>

<!ELEMENT error-packets-dropped-no-memory (#PCDATA)>

<!ELEMENT error-packets-dropped-not-ip (#PCDATA)>

<!ELEMENT error-packets-dropped-not-ipv4 (#PCDATA)>

<!ELEMENT error-packets-per-second-overload (#PCDATA)>

<!ELEMENT error-packets-too-small (#PCDATA)>

<!ELEMENT export-packet-failures (#PCDATA)>

<!ELEMENT five-second-load (#PCDATA)>

<!ELEMENT flow-aggregate-as-detail (detail-entry)*>
<!ATTLIST flow-aggregate-as-detail junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-destination-prefix-detail (detail-entry)*>
<!ATTLIST flow-aggregate-destination-prefix-detail junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-protocol-port-detail (detail-entry)*>
<!ATTLIST flow-aggregate-protocol-port-detail junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-source-destination-prefix-detail (detail-entry)*>
<!ATTLIST flow-aggregate-source-destination-prefix-detail junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-source-prefix-detail (detail-entry)*>
<!ATTLIST flow-aggregate-source-prefix-detail junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-template-detail (flow-aggregate-template-detail-ipv4 |
flow-aggregate-template-detail-mpls | flow-aggregate-template-detail-mpls-ipv4 |
flow-aggregate-template-detail-ipv6)*>

<!ELEMENT flow-aggregate-template-detail-ipv4 (detail-entry)*>
<!ATTLIST flow-aggregate-template-detail-ipv4 junos:style CDATA #IMPLIED>
```

```
<!ELEMENT flow-aggregate-template-detail-ipv6 (detail-entry)*>
<!ATTLIST flow-aggregate-template-detail-ipv6 junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-template-detail-mpls (detail-entry)*>
<!ATTLIST flow-aggregate-template-detail-mpls junos:style CDATA #IMPLIED>

<!ELEMENT flow-aggregate-template-detail-mpls-ipv4 (detail-entry)*>
<!ATTLIST flow-aggregate-template-detail-mpls-ipv4 junos:style CDATA #IMPLIED>

<!ELEMENT flow-bytes (#PCDATA)>

<!ELEMENT flow-bytes-ten-second-rate (#PCDATA)>

<!ELEMENT flow-count (#PCDATA)>

<!ELEMENT flow-creation-failures (#PCDATA)>

<!ELEMENT flow-detail (detail-entry)*>
<!ATTLIST flow-detail junos:style CDATA #IMPLIED>

<!ELEMENT flow-information (interface | local_ifd_index | flow-packets | flow-bytes |
flow-packets-ten-second-rate | flow-bytes-ten-second-rate | active-flows | flows |
flows-exported | flow-packets-exported | flows-expired | flows-aged)*>

<!ELEMENT flow-packets (#PCDATA)>

<!ELEMENT flow-packets-exported (#PCDATA)>

<!ELEMENT flow-packets-ten-second-rate (#PCDATA)>

<!ELEMENT flows (#PCDATA)>

<!ELEMENT flows-aged (#PCDATA)>

<!ELEMENT flows-expired (#PCDATA)>

<!ELEMENT flows-exported (#PCDATA)>

<!ELEMENT free-count (#PCDATA)>

<!ELEMENT frees-per-second (#PCDATA)>

<!ELEMENT icmp-type (#PCDATA)>

<!ELEMENT input-interface-name (#PCDATA)>

<!ELEMENT input-snmp-interface-index (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT inttime (#PCDATA)>

<!ELEMENT last-active-timeout (time-delta | last-packet-count | last-byte-count)*>
```

```
<!ELEMENT last-byte-count (#PCDATA)>

<!ELEMENT last-packet-count (#PCDATA)>

<!ELEMENT local-index (#PCDATA)>

<!ELEMENT local_ifd_index (#PCDATA)>

<!ELEMENT maximum-allocated (#PCDATA)>

<!ELEMENT memory-free (#PCDATA)>

<!ELEMENT memory-information (allocation-count | free-count | maximum-allocated |
allocations-per-second | frees-per-second | memory-used | memory-free |
v9-memory-used)*>
<!ATTLIST memory-information junos:style CDATA #IMPLIED>

<!ELEMENT memory-overload (#PCDATA)>

<!ELEMENT memory-used (#PCDATA)>

<!ELEMENT mpls-label-1 (#PCDATA)>

<!ELEMENT mpls-label-2 (#PCDATA)>

<!ELEMENT mpls-label-3 (#PCDATA)>

<!ELEMENT one-minute-load (#PCDATA)>

<!ELEMENT output-interface-name (#PCDATA)>

<!ELEMENT output-snmp-interface-index (#PCDATA)>

<!ELEMENT packet-count (#PCDATA)>

<!ELEMENT packet-distribution-information (packet-size-range-start |
packet-size-range-end | range-number-packets | range-percentage-packets)*>

<!ELEMENT packet-size-range-end (#PCDATA)>

<!ELEMENT packet-size-range-start (#PCDATA)>

<!ELEMENT pic-status (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>
<!ATTLIST protocol junos:format CDATA #IMPLIED>

<!ELEMENT range-number-packets (#PCDATA)>

<!ELEMENT range-percentage-packets (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>

<!ELEMENT service-set-dropped (#PCDATA)>
```

```
<!ELEMENT services-accounting-information (service-name | interface-name | pic-status
| local-index | usage-information | memory-information | flow-information |
packet-distribution-information | error-information | v9-error-information |
status-information | flow-detail | flow-aggregate-template-detail | flow-aggregate-as-detail
| flow-aggregate-protocol-port-detail | flow-aggregate-source-prefix-detail |
flow-aggregate-destination-prefix-detail |
flow-aggregate-source-destination-prefix-detail)*>
<!ATTLIST services-accounting-information junos:style CDATA #IMPLIED>

<!ELEMENT source-address (#PCDATA)>

<!ELEMENT source-as (#PCDATA)>

<!ELEMENT source-ipv6-address (#PCDATA)>

<!ELEMENT source-mask (#PCDATA)>

<!ELEMENT source-port (#PCDATA)>
<!ATTLIST source-port junos:format CDATA #IMPLIED>

<!ELEMENT source-prefix-length (#PCDATA)>

<!ELEMENT start-time (#PCDATA)>
<!ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT status-as-count (#PCDATA)>

<!ELEMENT status-engine-id (#PCDATA)>

<!ELEMENT status-engine-type (#PCDATA)>

<!ELEMENT status-export-format (#PCDATA)>

<!ELEMENT status-export-interval (#PCDATA)>

<!ELEMENT status-ifl-snmp-map-count (#PCDATA)>

<!ELEMENT status-information (status-service-id | status-export-interval |
status-export-format | status-proto | status-engine-type | status-engine-id |
status-route-record-count | status-ifl-snmp-map-count | status-as-count |
status-monitor-time-set | status-monitor-config-set | status-monitor-route-record-set |
status-monitor-ifl-snmp-set)*>
<!ATTLIST status-information junos:style CDATA #IMPLIED>

<!ELEMENT status-monitor-config-set (#PCDATA)>

<!ELEMENT status-monitor-ifl-snmp-set (#PCDATA)>

<!ELEMENT status-monitor-route-record-set (#PCDATA)>

<!ELEMENT status-monitor-time-set (#PCDATA)>

<!ELEMENT status-proto (#PCDATA)>

<!ELEMENT status-route-record-count (#PCDATA)>

<!ELEMENT status-service-id (#PCDATA)>
```

```
<!ELEMENT tcp-flags (#PCDATA)>

<!ELEMENT time-delta (#PCDATA)>
<!ATTLIST time-delta junos:seconds CDATA #IMPLIED>

<!ELEMENT tos (#PCDATA)>

<!ELEMENT uptime (#PCDATA)>

<!ELEMENT usage-information (uptime | inttime | five-second-load | one-minute-load)*>

<!ELEMENT v9-error-information (service-set-dropped | active-timeout-failures |
export-packet-failures | flow-creation-failures | memory-overload)*>

<!ELEMENT v9-memory-used (#PCDATA)>
```

Chapter 62

DTD for Services Flow Collector Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-services-flow-collector.dtd, which lists the JUNOS XML tags that contain services flow collector records. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-services-flow-collector. To review reference pages for the tags, see "Summary of Services Flow Collector Response Tags" on page 1808.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
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<!– junos-services-flow-collector.dtd –>

<!ELEMENT block-count (#PCDATA)>

<!ELEMENT blocks-allocated (#PCDATA)>

<!ELEMENT blocks-allocated-per-second (#PCDATA)>

<!ELEMENT blocks-freed (#PCDATA)>

<!ELEMENT blocks-freed-per-second (#PCDATA)>

<!ELEMENT blocks-unavailable (#PCDATA)>

<!ELEMENT blocks-unavailable-per-second (#PCDATA)>

<!ELEMENT bytes (#PCDATA)>

<!ELEMENT bytes-per-second (#PCDATA)>

<!ELEMENT clear-flow-collector-statistics-response (#PCDATA)>

<!ELEMENT compressed-block-count (#PCDATA)>

<!ELEMENT compressed-bytes (#PCDATA)>

<!ELEMENT compressed-bytes-per-second (#PCDATA)>

<!ELEMENT current-server (#PCDATA)>

<!ELEMENT export-channel (export-channel-index | current-server | primary-server-state |
secondary-server-state)*>
```

```
<!ELEMENT export-channel-index (#PCDATA)>

<!ELEMENT file (file-name | flow-records | flow-records-per-second |
peak-flow-records-per-second | uncompressed-bytes | uncompressed-bytes-per-second |
peak-uncompressed-bytes-per-second | compressed-bytes |
compressed-bytes-per-second | peak-compressed-bytes-per-second |
compressed-block-count | block-count | state | transfer-attempts)*>

<!ELEMENT file-information (file)*>
<!ATTLIST file-information junos:style CDATA #IMPLIED>

<!ELEMENT file-name (#PCDATA)>

<!ELEMENT files-created (#PCDATA)>

<!ELEMENT files-created-per-second (#PCDATA)>

<!ELEMENT files-destroyed (#PCDATA)>

<!ELEMENT files-destroyed-per-second (#PCDATA)>

<!ELEMENT files-exported (#PCDATA)>

<!ELEMENT files-exported-per-second (#PCDATA)>

<!ELEMENT flow-collector-destination-response (#PCDATA)>

<!ELEMENT flow-record-processed (#PCDATA)>

<!ELEMENT flow-record-processed-per-second (#PCDATA)>

<!ELEMENT flow-records (#PCDATA)>

<!ELEMENT flow-records-per-second (#PCDATA)>

<!ELEMENT ftp-bytes (#PCDATA)>

<!ELEMENT ftp-bytes-per-second (#PCDATA)>

<!ELEMENT ftp-failures (#PCDATA)>

<!ELEMENT ftp-files (#PCDATA)>

<!ELEMENT ftp-files-per-second (#PCDATA)>

<!ELEMENT input (input-interface | packets | bytes)*>

<!ELEMENT input-information (input)*>

<!ELEMENT input-interface (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT memory-free (#PCDATA)>

<!ELEMENT memory-used (#PCDATA)>
```

```
<!ELEMENT packet-icmp-drops (#PCDATA)>
<!ELEMENT packet-ip-fragment-drops (#PCDATA)>
<!ELEMENT packet-no-memory-drops (#PCDATA)>
<!ELEMENT packet-not-ip-drops (#PCDATA)>
<!ELEMENT packet-not-ipv4-drops (#PCDATA)>
<!ELEMENT packet-not-jflow-drops (#PCDATA)>
<!ELEMENT packet-tcp-drops (#PCDATA)>
<!ELEMENT packet-too-small-drops (#PCDATA)>
<!ELEMENT packet-unknown-drops (#PCDATA)>
<!ELEMENT packets (#PCDATA)>
<!ELEMENT packets-per-second (#PCDATA)>
<!ELEMENT peak-blocks-allocated-per-second (#PCDATA)>
<!ELEMENT peak-blocks-freed-per-second (#PCDATA)>
<!ELEMENT peak-blocks-unavailable-per-second (#PCDATA)>
<!ELEMENT peak-bytes-per-second (#PCDATA)>
<!ELEMENT peak-compressed-bytes-per-second (#PCDATA)>
<!ELEMENT peak-files-created-per-second (#PCDATA)>
<!ELEMENT peak-files-destroyed-per-second (#PCDATA)>
<!ELEMENT peak-files-exported-per-second (#PCDATA)>
<!ELEMENT peak-flow-record-processed-per-second (#PCDATA)>
<!ELEMENT peak-flow-records-per-second (#PCDATA)>
<!ELEMENT peak-ftp-bytes-per-second (#PCDATA)>
<!ELEMENT peak-ftp-files-per-second (#PCDATA)>
<!ELEMENT peak-packets-per-second (#PCDATA)>
<!ELEMENT peak-uncompressed-bytes-per-second (#PCDATA)>
<!ELEMENT pic-status (#PCDATA)>
<!ELEMENT primary-server-state (#PCDATA)>
<!ELEMENT secondary-server-state (#PCDATA)>
```

```
<!ELEMENT services-flow-collector-information (interface-name | pic-status |
statistics-information | file-information | input-information |
flow-collector-destination-response | test-file-transfer-response |
clear-flow-collector-statistics-response)*>

<!ELEMENT state (#PCDATA)>

<!ELEMENT statistics-information (memory-used | memory-free | packets |
packets-per-second | peak-packets-per-second | bytes | bytes-per-second |
peak-bytes-per-second | flow-record-processed | flow-record-processed-per-second |
peak-flow-record-processed-per-second | blocks-allocated | blocks-allocated-per-second
| peak-blocks-allocated-per-second | blocks-freed | blocks-freed-per-second |
peak-blocks-freed-per-second | blocks-unavailable | blocks-unavailable-per-second |
peak-blocks-unavailable-per-second | files-created | files-created-per-second |
peak-files-created-per-second | files-exported | files-exported-per-second |
peak-files-exported-per-second | files-destroyed | files-destroyed-per-second |
peak-files-destroyed-per-second | uncompressed-bytes |
uncompressed-bytes-per-second | peak-uncompressed-bytes-per-second |
compressed-bytes | compressed-bytes-per-second | peak-compressed-bytes-per-second
| packet-no-memory-drops | packet-not-ip-drops | packet-not-ipv4-drops |
packet-too-small-drops | packet-ip-fragment-drops | packet-icmp-drops |
packet-tcp-drops | packet-unknown-drops | packet-not-jflow-drops | ftp-bytes |
ftp-bytes-per-second | peak-ftp-bytes-per-second | ftp-files | ftp-files-per-second |
peak-ftp-files-per-second | ftp-failures | export-channel)*>
<!ATTLIST statistics-information junos:style CDATA #IMPLIED>

<!ELEMENT test-file-transfer-response (#PCDATA)>

<!ELEMENT transfer-attempts (#PCDATA)>

<!ELEMENT uncompressed-bytes (#PCDATA)>

<!ELEMENT uncompressed-bytes-per-second (#PCDATA)>
```

Chapter 63

DTD for Shutdown Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-shutdown.dtd, which lists the JUNOS XML tags that contain routing platform shutdown information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-shutdown. To review reference pages for the tags, see "Summary of Shutdown Response Tags" on page 1838.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-shutdown.dtd –>

<!ELEMENT clear-reboot-status (reboot-information-results |
clear-reboot-status-results)*>

<!ELEMENT clear-reboot-status-results (#PCDATA)>

<!ELEMENT reboot-information (reboot-information-results)*>

<!ELEMENT reboot-information-results (#PCDATA)>

<!ELEMENT request-reboot-results (request-reboot-status)*>

<!ELEMENT request-reboot-status (#PCDATA)>
<!ATTLIST request-reboot-status reboot-time CDATA #IMPLIED>
```

Chapter 64

DTD for SNMP Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-snmp.dtd, which lists the JUNOS XML tags that contain Simple Network Management Protocol (SNMP) information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-snmp. To review reference pages for the tags, see "Summary of SNMP Response Tags" on page 1839.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-snmp.dtd –>

<!ELEMENT address (#PCDATA)>

<!ELEMENT alarm-creator (#PCDATA)>

<!ELEMENT alarm-index (#PCDATA)>

<!ELEMENT alarm-interval (#PCDATA)>

<!ELEMENT alarm-owner (#PCDATA)>

<!ELEMENT alarm-state (#PCDATA)>

<!ELEMENT alarm-subtag (#PCDATA)>

<!ELEMENT alarm-value (#PCDATA)>

<!ELEMENT asn-parse-errors (#PCDATA)>

<!ELEMENT auth-type (#PCDATA)>

<!ELEMENT bad-community-names (#PCDATA)>

<!ELEMENT bad-community-uses (#PCDATA)>

<!ELEMENT bad-values (#PCDATA)>

<!ELEMENT bad-versions (#PCDATA)>

<!ELEMENT commit-pending-drops (#PCDATA)>

<!ELEMENT community (#PCDATA)>

<!ELEMENT community-index (#PCDATA)>
```

```
<!ELEMENT context-match (#PCDATA)>
<!ELEMENT context-name (#PCDATA)>
<!ELEMENT context-prefix (#PCDATA)>
<!ELEMENT current-queued (#PCDATA)>
<!ELEMENT current-throttled (#PCDATA)>
<!ELEMENT currently-active (#PCDATA)>
<!ELEMENT decrypt-errors (#PCDATA)>
<!ELEMENT duplicate-request-drops (#PCDATA)>
<!ELEMENT engine-boots (#PCDATA)>
<!ELEMENT engine-id (#PCDATA)>
<!ELEMENT engine-time (#PCDATA)>
<!ELEMENT error (#PCDATA)>
<!ELEMENT event-creator (#PCDATA)>
<!ELEMENT event-descr (#PCDATA)>
<!ELEMENT event-index (#PCDATA)>
<!ELEMENT event-owner (#PCDATA)>
<!ELEMENT event-state (#PCDATA)>
<!ELEMENT event-type (#PCDATA)>
<!ELEMENT falling-event-index (#PCDATA)>
<!ELEMENT falling-threshold (#PCDATA)>
<!ELEMENT filter-name (#PCDATA)>
<!ELEMENT filter-type (#PCDATA)>
<!ELEMENT general-errors (#PCDATA)>
<!ELEMENT get-nexts (#PCDATA)>
<!ELEMENT get-requests (#PCDATA)>
<!ELEMENT get-responses (#PCDATA)>
<!ELEMENT group-deregisters (#PCDATA)>
<!ELEMENT group-name (#PCDATA)>
```

```
<!ELEMENT group-registers (#PCDATA)>

<!ELEMENT group-removes (#PCDATA)>

<!ELEMENT health-monitor-information (rmon-alarm-information | rmon-log-information |
rmon-history-information)*>

<!ELEMENT history-index (#PCDATA)>

<!ELEMENT history-interface (#PCDATA)>

<!ELEMENT history-interval (#PCDATA)>

<!ELEMENT history-owner (#PCDATA)>

<!ELEMENT history-requested-buckets (#PCDATA)>

<!ELEMENT history-sample (history-sample-index | history-sample-start-time |
history-sample-drop-events | history-sample-octect | history-sample-packets |
history-sample-broadcast-packets | history-sample-multicast-packets |
history-sample-crc-errors | history-sample-undersize-packets |
history-sample-oversize-packets | history-sample-fragments | history-sample-jabbers |
history-sample-collisions | history-sample-utilization)*>

<!ELEMENT history-sample-broadcast-packets (#PCDATA)>

<!ELEMENT history-sample-collisions (#PCDATA)>

<!ELEMENT history-sample-crc-errors (#PCDATA)>

<!ELEMENT history-sample-drop-events (#PCDATA)>

<!ELEMENT history-sample-fragments (#PCDATA)>

<!ELEMENT history-sample-index (#PCDATA)>

<!ELEMENT history-sample-jabbers (#PCDATA)>

<!ELEMENT history-sample-multicast-packets (#PCDATA)>

<!ELEMENT history-sample-octect (#PCDATA)>

<!ELEMENT history-sample-oversize-packets (#PCDATA)>

<!ELEMENT history-sample-packets (#PCDATA)>

<!ELEMENT history-sample-start-time (#PCDATA)>

<!ELEMENT history-sample-undersize-packets (#PCDATA)>

<!ELEMENT history-sample-utilization (#PCDATA)>

<!ELEMENT history-status (#PCDATA)>

<!ELEMENT index (index-name | index-value)*>

<!ELEMENT index-name (#PCDATA)>
```

```
<!ELEMENT index-value (#PCDATA)>

<!ELEMENT inst-description (#PCDATA)>

<!ELEMENT inst-state (#PCDATA)>

<!ELEMENT inst-value (#PCDATA)>

<!ELEMENT inst-var-name (#PCDATA)>

<!ELEMENT invalid-msgs (#PCDATA)>

<!ELEMENT last-time-sent (#PCDATA)>
<!ATTLIST last-time-sent junos:seconds CDATA #IMPLIED>

<!ELEMENT max-active (#PCDATA)>

<!ELEMENT max-latency (#PCDATA)>

<!ELEMENT max-msg-size (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT no-such-names (#PCDATA)>

<!ELEMENT not-found (#PCDATA)>

<!ELEMENT not-in-timewindows (#PCDATA)>

<!ELEMENT notify-filter-name (#PCDATA)>

<!ELEMENT notify-name (#PCDATA)>

<!ELEMENT notify-tag (#PCDATA)>

<!ELEMENT notify-type (#PCDATA)>

<!ELEMENT notify-view (#PCDATA)>

<!ELEMENT nvs-commit-failures (#PCDATA)>

<!ELEMENT nvs-commit-pending (#PCDATA)>

<!ELEMENT nvs-conflock-failures (#PCDATA)>

<!ELEMENT nvs-journal-write-failures (#PCDATA)>

<!ELEMENT nvs-mgd-connect-failures (#PCDATA)>

<!ELEMENT nvs-rpc-mgd-failures (#PCDATA)>

<!ELEMENT object-value (#PCDATA)>

<!ELEMENT object-value-type (#PCDATA)>

<!ELEMENT oid (#PCDATA)>
```

```
<!ELEMENT packets (#PCDATA)>

<!ELEMENT port (#PCDATA)>

<!ELEMENT priv-type (#PCDATA)>

<!ELEMENT proxy-drops (#PCDATA)>

<!ELEMENT read-onlys (#PCDATA)>

<!ELEMENT read-view (#PCDATA)>

<!ELEMENT rising-event-index (#PCDATA)>

<!ELEMENT rising-threshold (#PCDATA)>

<!ELEMENT rmon-alarm (alarm-index | var-name | var-oid | sample-type | alarm-value |
startup | alarm-interval | rising-threshold | falling-threshold | rising-event-index |
falling-event-index | alarm-owner | alarm-subtag | alarm-creator | alarm-state |
rmon-alarm-instance-information)*>

<!ELEMENT rmon-alarm-information (rmon-alarm)*>
<!ATTLIST rmon-alarm-information junos:style CDATA #IMPLIED>

<!ELEMENT rmon-alarm-instance (inst-var-name | inst-description | inst-value |
inst-state)*>

<!ELEMENT rmon-alarm-instance-information (rmon-alarm-instance)*>

<!ELEMENT rmon-event (event-index | event-descr | event-type | community |
last-time-sent | event-owner | event-creator | event-state)*>

<!ELEMENT rmon-event-information (rmon-event)*>
<!ATTLIST rmon-event-information junos:style CDATA #IMPLIED>

<!ELEMENT rmon-history (history-index | history-interface | history-requested-buckets |
history-interval | history-owner | history-status)*>

<!ELEMENT rmon-history-information (rmon-history | history-sample)*>

<!ELEMENT rmon-information (rmon-alarm-information | rmon-event-information |
rmon-history-information)*>

<!ELEMENT rmon-log (rmon-log-event-index | rmon-log-index | rmon-log-descr |
rmon-log-time)*>

<!ELEMENT rmon-log-descr (#PCDATA)>

<!ELEMENT rmon-log-event-index (#PCDATA)>

<!ELEMENT rmon-log-index (#PCDATA)>

<!ELEMENT rmon-log-information (rmon-log)*>

<!ELEMENT rmon-log-time (#PCDATA)>
<!ATTLIST rmon-log-time junos:seconds CDATA #IMPLIED>
```

```
<!ELEMENT row-status (#PCDATA)>

<!ELEMENT sample-type (#PCDATA)>

<!ELEMENT security-level (#PCDATA)>

<!ELEMENT security-model (#PCDATA)>

<!ELEMENT security-name (#PCDATA)>

<!ELEMENT set-requests (#PCDATA)>

<!ELEMENT silent-drops (#PCDATA)>

<!ELEMENT snmp-generate-trap-result (#PCDATA)>

<!ELEMENT snmp-generate-trap-results (snmp-generate-trap-result)*>

<!ELEMENT snmp-input-statistics (packets | bad-versions | bad-community-names |
bad-community-uses | asn-parse-errors | too-bigs | no-such-names | bad-values |
read-onlys | general-errors | total-request-varbinds | total-set-varbinds | get-requests |
get-nexts | set-requests | get-responses | traps | silent-drops | proxy-drops |
throttle-drops | commit-pending-drops | duplicate-request-drops)*>

<!ELEMENT snmp-object (name | index | oid | object-value | object-value-type | error)*>

<!ELEMENT snmp-object-information (snmp-object | snmp-request-error)*>

<!ELEMENT snmp-output-statistics (packets | too-bigs | no-such-names | bad-values |
general-errors | get-requests | get-nexts | set-requests | get-responses | traps)*>

<!ELEMENT snmp-req-error-value (#PCDATA)>

<!ELEMENT snmp-request-error (snmp-req-error-value)*>

<!ELEMENT snmp-set-stats (nvs-commit-pending | nvs-conflock-failures |
nvs-rpc-mgd-failures | nvs-journal-write-failures | nvs-mgd-connect-failures |
nvs-commit-failures)*>

<!ELEMENT snmp-spoof-trap-result (#PCDATA)>

<!ELEMENT snmp-spoof-trap-results (snmp-spoof-trap-result | snmp-spoofable-traps)*>

<!ELEMENT snmp-spoofable-traps (#PCDATA)>

<!ELEMENT snmp-statistics (snmp-input-statistics | snmp-v3-input-statistics |
snmp-output-statistics | sub-agent-control-blocks | sub-agent-registration |
trap-queue-stats | trap-throttle-stats | snmp-set-stats)*>

<!ELEMENT snmp-v3-access (group-name | context-prefix | security-model |
security-level | context-match | read-view | write-view | notify-view | storage-type |
row-status)*>

<!ELEMENT snmp-v3-access-information (snmp-v3-access)*>
<!ATTLIST snmp-v3-access-information junos:style CDATA #IMPLIED>
```

```
<!ELEMENT snmp-v3-community (community-index | security-name | context-name |
transport-tag | storage-type | row-status)*>

<!ELEMENT snmp-v3-community-information (snmp-v3-community)*>

<!ELEMENT snmp-v3-engine-information (engine-id | engine-boots | engine-time |
max-msg-size)*>

<!ELEMENT snmp-v3-general-information (snmp-v3-engine-information)*>

<!ELEMENT snmp-v3-group (group-name | security-model | security-name | storage-type |
row-status)*>

<!ELEMENT snmp-v3-group-information (snmp-v3-group)*>

<!ELEMENT snmp-v3-information (snmp-v3-general-information |
snmp-v3-usm-user-information | snmp-v3-group-information |
snmp-v3-access-information | snmp-v3-target-information | snmp-v3-notify-information |
snmp-v3-notify-filter-information | snmp-v3-community-information)*>

<!ELEMENT snmp-v3-input-statistics (unknown-secmodels | invalid-msgs |
unknown-pduhandlers | unavail-contexts | unknown-contexts | unsupported-seclevels |
not-in-timewindows | unknown-usernames | unknown-eids | wrong-digests |
decrypt-errors)*>

<!ELEMENT snmp-v3-notify (notify-name | notify-tag | notify-type | storage-type |
row-status)*>

<!ELEMENT snmp-v3-notify-filter (filter-name | subtree | filter-type | storage-type |
row-status)*>

<!ELEMENT snmp-v3-notify-filter-information (snmp-v3-notify-filter)*>

<!ELEMENT snmp-v3-notify-information (snmp-v3-notify)*>

<!ELEMENT snmp-v3-target-address-information (snmp-v3-target_address)*>

<!ELEMENT snmp-v3-target-information (snmp-v3-target-address-information |
snmp-v3-target-parameters-information)*>

<!ELEMENT snmp-v3-target-parameters-information (snmp-v3-target_parameters)*>

<!ELEMENT snmp-v3-target_address (target-address-name | address | port |
target-parameters-name | storage-type | row-status)*>

<!ELEMENT snmp-v3-target_parameters (target-parameters-name | security-name |
security-model | security-level | notify-filter-name | storage-type | row-status)*>

<!ELEMENT snmp-v3-usm-user (user-name | auth-type | priv-type | storage-type |
row-status)*>

<!ELEMENT snmp-v3-usm-user-engine-id (user-engine-id)*>

<!ELEMENT snmp-v3-usm-user-information (snmp-v3-usm-user-engine-id |
snmp-v3-usm-user)*>

<!ELEMENT startup (#PCDATA)>
```

<!ELEMENT storage-type (#PCDATA)>

<!ELEMENT sub-agent-control-blocks (total | currently-active | max-active | not-found | timed-out | max-latency)*>

<!ELEMENT sub-agent-registration (group-registers | group-deregisters | group-removes)*>

<!ELEMENT subtree (#PCDATA)>

<!ELEMENT target-address-name (#PCDATA)>

<!ELEMENT target-parameters-name (#PCDATA)>

<!ELEMENT throttle-drops (#PCDATA)>

<!ELEMENT timed-out (#PCDATA)>

<!ELEMENT too-bigs (#PCDATA)>

<!ELEMENT total (#PCDATA)>

<!ELEMENT total-discards (#PCDATA)>

<!ELEMENT total-overflows (#PCDATA)>

<!ELEMENT total-queued (#PCDATA)>

<!ELEMENT total-request-varbinds (#PCDATA)>

<!ELEMENT total-set-varbinds (#PCDATA)>

<!ELEMENT total-throttles (#PCDATA)>

<!ELEMENT transport-tag (#PCDATA)>

<!ELEMENT trap-queue-stats (current-queued | total-queued | total-discards | total-overflows)*>

<!ELEMENT trap-throttle-stats (current-throttled | total-throttles)*>

<!ELEMENT traps (#PCDATA)>

<!ELEMENT unavail-contexts (#PCDATA)>

<!ELEMENT unknown-contexts (#PCDATA)>

<!ELEMENT unknown-eids (#PCDATA)>

<!ELEMENT unknown-pduhandlers (#PCDATA)>

<!ELEMENT unknown-secmodels (#PCDATA)>

<!ELEMENT unknown-usernames (#PCDATA)>

<!ELEMENT unsupported-seclevels (#PCDATA)>

```
<!ELEMENT user-engine-id (#PCDATA)>

<!ELEMENT user-name (#PCDATA)>

<!ELEMENT var-name (#PCDATA)>

<!ELEMENT var-oid (#PCDATA)>

<!ELEMENT write-view (#PCDATA)>

<!ELEMENT wrong-digests (#PCDATA)>
```

Chapter 65

DTD for SMPL Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-smpl.dtd, which lists the JUNOS XML tags that contain JUNOS SMPL information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-smpl. To review reference pages for the tags, see "Summary of SMPL Respone Tags" on page 1831.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-smpl.dtd –>

<!ELEMENT smpl-instance-id (#PCDATA)>

<!ELEMENT smpl-instance-input-maximum-packet-length (#PCDATA)>

<!ELEMENT smpl-instance-input-rate (#PCDATA)>

<!ELEMENT smpl-instance-input-run-length (#PCDATA)>

<!ELEMENT smpl-instance-name (#PCDATA)>

<!ELEMENT smpl-instance-nhid-header (#PCDATA)>

<!ELEMENT smpl-instance-state (#PCDATA)>

<!ELEMENT smpl-next-hop-group (smpl-nhgroup)*>

<!ELEMENT smpl-nexthop-index (#PCDATA)>

<!ELEMENT smpl-nhgroup (smpl-nhgroup-member-list | smpl-nhgroup-subgroup |
smpl-nhgroup-name | smpl-nhgroup-type | smpl-nhgroup-state |
smpl-nhgroup-nhid-header | smpl-nhgroup-num-members-configured |
smpl-nhgroup-num-members-up | smpl-nhgroup-subgroups-configured |
smpl-nhgroup-subgroups-up)*>
<!ATTLIST smpl-nhgroup junos:style CDATA #IMPLIED>

<!ELEMENT smpl-nhgroup-member-interface (#PCDATA)>

<!ELEMENT smpl-nhgroup-member-list (smpl-nhgroup-member-interface |
smpl-nhgroup-nexthop-address | smpl-nhgroup-nexthop-state | smpl-nexthop-index)*>

<!ELEMENT smpl-nhgroup-name (#PCDATA)>

<!ELEMENT smpl-nhgroup-nexthop-address (#PCDATA)>
```

```
<!ELEMENT smpl-nhgroup-nexthop-state (#PCDATA)>

<!ELEMENT smpl-nhgroup-nhid-header (#PCDATA)>

<!ELEMENT smpl-nhgroup-num-members-configured (#PCDATA)>

<!ELEMENT smpl-nhgroup-num-members-up (#PCDATA)>

<!ELEMENT smpl-nhgroup-state (#PCDATA)>

<!ELEMENT smpl-nhgroup-subgroup (smpl-nhgroup-name | smpl-nhgroup-state |
smpl-nhgroup-nexthop-state | smpl-nexthop-index | smpl-nhgroup-nhid-header |
smpl-subgroup-num-members-configured | smpl-subgroup-num-members-up |
smpl-subgroup-member-list)*>

<!ELEMENT smpl-nhgroup-subgroups-configured (#PCDATA)>

<!ELEMENT smpl-nhgroup-subgroups-up (#PCDATA)>

<!ELEMENT smpl-nhgroup-type (#PCDATA)>

<!ELEMENT smpl-output-family-destination (#PCDATA)>

<!ELEMENT smpl-output-family-name (#PCDATA)>

<!ELEMENT smpl-output-family-state (#PCDATA)>

<!ELEMENT smpl-port-mirror-output-family-list (smpl-output-family-name |
smpl-output-family-state | smpl-output-family-destination | smpl-nexthop-index |
smpl-nhgroup-member-list)*>

<!ELEMENT smpl-port-mirroring (smpl-port-mirroring-instance)*>

<!ELEMENT smpl-port-mirroring-instance (smpl-port-mirror-output-family-list |
smpl-instance-name | smpl-instance-state | smpl-instance-id | smpl-instance-input-rate |
smpl-instance-input-run-length | smpl-instance-input-maximum-packet-length |
smpl-instance-nhid-header)*>
<!ATTLIST smpl-port-mirroring-instance junos:style CDATA #IMPLIED>

<!ELEMENT smpl-subgroup-member-list (smpl-nhgroup-member-interface |
smpl-nhgroup-nexthop-address | smpl-nhgroup-nexthop-state | smpl-nexthop-index)*>

<!ELEMENT smpl-subgroup-num-members-configured (#PCDATA)>

<!ELEMENT smpl-subgroup-num-members-up (#PCDATA)>
```

Chapter 66

DTD for Static Subscribers Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-static-subsribers.dtd, which lists the JUNOS XML tags that contain information about Subscribers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-static-subscribers. To review reference pages for the tags, see "Summary of Static Subscribers Response Tags" on page 1865.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-static-subscribers.dtd –>

<!ELEMENT failure (#PCDATA)>

<!ELEMENT group (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT results (success | failure)*>
<!ATTLIST results junos:style CDATA #IMPLIED>

<!ELEMENT state (#PCDATA)>

<!ELEMENT static-subscribers-information (results | subscriber-session)*>

<!ELEMENT subscriber-session (username | interface | group | state)*>

<!ELEMENT success EMPTY>

<!ELEMENT username (#PCDATA)>
```

Chapter 67

DTD for Subscribers Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-subsribers.dtd, which lists the JUNOS XML tags that contain information about Subscribers. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-subscribers. To review reference pages for the tags, see "Summary of Subscribers Response Tags" on page 1928.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-subscribers.dtd –>

<!ELEMENT access-type (#PCDATA)>

<!ELEMENT error (input-error-message)*>
<!ATTLIST error junos:style CDATA #IMPLIED>

<!ELEMENT gw-address (#PCDATA)>

<!ELEMENT input-error-message (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT interface-type (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT ip-netmask (#PCDATA)>

<!ELEMENT logical-system (#PCDATA)>

<!ELEMENT login-time (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT no-information (#PCDATA)>

<!ELEMENT number-of-active-subscribers (#PCDATA)>

<!ELEMENT number-of-subscribers (#PCDATA)>

<!ELEMENT profile (#PCDATA)>

<!ELEMENT radius-accounting-id (#PCDATA)>
```

```
<!ELEMENT routing-instance (#PCDATA)>

<!ELEMENT stacked-vlan-id (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT subscriber (access-type | user-name | ip-address | ip-netmask |
logical-system | routing-instance | interface | interface-type | stacked-vlan-id | vlan-id |
profile | mac-address | login-time | state | gw-address | radius-accounting-id |
number-of-subscribers | number-of-active-subscribers | no-information)*>
<!ATTLIST subscriber junos:style CDATA #IMPLIED>

<!ELEMENT subscribers-information (subscriber | error)*>

<!ELEMENT user-name (#PCDATA)>

<!ELEMENT vlan-id (#PCDATA)>
```

Chapter 68

DTD for System Process Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-process.dtd, which lists the JUNOS XML tags that contain information about system processes (the information returned by the show system processes command-line interface [CLI] command). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-process. To review reference pages for the tags, see Summary of System Process Response Tags on page 1931.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-process.dtd –>

<!ELEMENT address (#PCDATA)>

<!ELEMENT advisory-lock EMPTY>

<!ELEMENT alias (#PCDATA)>

<!ELEMENT argument (#PCDATA)>

<!ELEMENT argument-index (#PCDATA)>

<!ELEMENT block-input-operation (#PCDATA)>

<!ELEMENT block-output-operation (#PCDATA)>

<!ELEMENT command (#PCDATA)>

<!ELEMENT command-line-argument (argument-index | argument)*>

<!ELEMENT command-line-argument-list (command-line-argument)*>

<!ELEMENT controlling-terminal EMPTY>

<!ELEMENT cpu-idle-time (#PCDATA)>

<!ELEMENT cpu-idle-time-percent (#PCDATA)>

<!ELEMENT cpu-interrupts-time (#PCDATA)>

<!ELEMENT cpu-interrupts-time-percent (#PCDATA)>

<!ELEMENT cpu-load (#PCDATA)>
```

```
<!ELEMENT cpu-nice-time (#PCDATA)>

<!ELEMENT cpu-nice-time-percent (#PCDATA)>

<!ELEMENT cpu-system-time (#PCDATA)>

<!ELEMENT cpu-system-time-percent (#PCDATA)>

<!ELEMENT cpu-total-time (#PCDATA)>

<!ELEMENT cpu-user-time (#PCDATA)>

<!ELEMENT cpu-user-time-percent (#PCDATA)>

<!ELEMENT data-size (#PCDATA)>
<!ATTLIST data-size junos:pages CDATA #IMPLIED>

<!ELEMENT debug-trace EMPTY>

<!ELEMENT debug-wait EMPTY>

<!ELEMENT exec EMPTY>

<!ELEMENT exiting EMPTY>

<!ELEMENT external-identifier (#PCDATA)>

<!ELEMENT in-memory EMPTY>

<!ELEMENT interruptible EMPTY>

<!ELEMENT involuntary-context-switch (#PCDATA)>

<!ELEMENT load-average-fifteen-minute (#PCDATA)>

<!ELEMENT load-average-five-minute (#PCDATA)>

<!ELEMENT load-average-one-minute (#PCDATA)>

<!ELEMENT login-id (#PCDATA)>

<!ELEMENT maximum-resident-set (#PCDATA)>

<!ELEMENT memory-load (#PCDATA)>

<!ELEMENT memory-page-size (#PCDATA)>

<!ELEMENT memory-statistics (memory-load | virtual-size | resident-set-size |
resident-set-before-swap | text-size | data-size | stack-size)*>

<!ELEMENT messages-received (#PCDATA)>

<!ELEMENT messages-sent (#PCDATA)>

<!ELEMENT name (#PCDATA)>
```

```
<!ELEMENT nice (#PCDATA)>

<!ELEMENT page-faults (#PCDATA)>

<!ELEMENT page-reclaims (#PCDATA)>

<!ELEMENT parent-process-id (#PCDATA)>

<!ELEMENT physical-memory-pages (#PCDATA)>

<!ELEMENT primary-instance EMPTY>

<!ELEMENT priority (#PCDATA)>

<!ELEMENT process (process-id | name | alias | external-identifier | primary-instance |
login-id | start-time | parent-process-id | process-group-id | command |
command-line-argument-list | terminal-device | priority | nice | process-status |
process-flags | sleep-information | resource-usage | memory-statistics)*>

<!ELEMENT process-flags (interruptible | advisory-lock | controlling-terminal | in-memory
| wait-child | profiling | select | set-id-privileges | system-process | timing-out |
debug-trace | debug-wait | exiting | exec)*>

<!ELEMENT process-group-id (#PCDATA)>

<!ELEMENT process-id (#PCDATA)>

<!ELEMENT process-information (scale-information | process | system-information)*>

<!ELEMENT process-run (#PCDATA)>

<!ELEMENT process-sleep (#PCDATA)>

<!ELEMENT process-start (#PCDATA)>

<!ELEMENT process-status (#PCDATA)>

<!ELEMENT process-stop (#PCDATA)>

<!ELEMENT process-total (#PCDATA)>

<!ELEMENT process-zombie (#PCDATA)>

<!ELEMENT profiling EMPTY>

<!ELEMENT reason (#PCDATA)>

<!ELEMENT resident-set-before-swap (#PCDATA)>
<!ATTLIST resident-set-before-swap junos:pages CDATA #IMPLIED>

<!ELEMENT resident-set-size (#PCDATA)>
<!ATTLIST resident-set-size junos:pages CDATA #IMPLIED>

<!ELEMENT resource-usage (cpu-load | user-time | system-time | maximum-resident-set
| page-reclaims | page-faults | swaps | block-input-operation | block-output-operation |
messages-sent | messages-received | signals | voluntary-context-switch |
involuntary-context-switch)*>
```

```
<!ELEMENT scale-information (memory-page-size | physical-memory-pages)*>

<!ELEMENT select EMPTY>

<!ELEMENT set-id-privileges EMPTY>

<!ELEMENT signals (#PCDATA)>

<!ELEMENT sleep-information (reason | address)*>

<!ELEMENT stack-size (#PCDATA)>
<!ATTLIST stack-size junos:pages CDATA #IMPLIED>

<!ELEMENT start-time (#PCDATA)>
<!ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT swaps (#PCDATA)>

<!ELEMENT system-boot-device (#PCDATA)>

<!ELEMENT system-boot-next-device (#PCDATA)>

<!ELEMENT system-cpu-states (cpu-total-time | cpu-user-time | cpu-user-time-percent |
cpu-nice-time | cpu-nice-time-percent | cpu-system-time | cpu-system-time-percent |
cpu-interrupts-time | cpu-interrupts-time-percent | cpu-idle-time |
cpu-idle-time-percent)*>

<!ELEMENT system-hardware-cpu-architecture (#PCDATA)>

<!ELEMENT system-hardware-cpu-count (#PCDATA)>

<!ELEMENT system-hardware-cpu-model (#PCDATA)>

<!ELEMENT system-hardware-page-available (#PCDATA)>

<!ELEMENT system-hardware-page-size (#PCDATA)>

<!ELEMENT system-hardware-physical-memory (#PCDATA)>

<!ELEMENT system-hardware-routing-engine-model (#PCDATA)>

<!ELEMENT system-hardware-routing-engine-name (#PCDATA)>

<!ELEMENT system-hardware-routing-engine-other-alive EMPTY>

<!ELEMENT system-hardware-routing-engine-other-present EMPTY>

<!ELEMENT system-hardware-routing-engine-serial-number (#PCDATA)>

<!ELEMENT system-hardware-user-memory (#PCDATA)>
```

```
<!ELEMENT system-information (system-hardware-cpu-architecture |
system-hardware-cpu-model | system-hardware-cpu-count | system-boot-device |
system-boot-next-device | system-hardware-physical-memory |
system-hardware-user-memory | system-hardware-page-size |
system-virtual-memory-page-size | system-hardware-page-available |
system-hardware-routing-engine-name | system-hardware-routing-engine-model |
system-hardware-routing-engine-serial-number |
system-hardware-routing-engine-other-present |
system-hardware-routing-engine-other-alive | system-virtual-memory-swap-enabled |
system-virtual-memory-context-switches | system-virtual-memory-trap |
system-virtual-memory-syscall | system-virtual-memory-hard-interrupts |
system-virtual-memory-soft-interrupts | system-virtual-memory-faults |
system-virtual-memory-copy-on-write-faults |
system-virtual-memory-copy-on-write-optimized | system-virtual-memory-zeroed-pages |
system-virtual-memory-zeroed-pages-optimized | system-virtual-memory-swapin |
system-virtual-memory-swapout | system-virtual-memory-swapped-in-pages |
system-virtual-memory-swapped-out-pages | system-virtual-memory-reactivated-pages |
system-virtual-memory-vnode-in | system-virtual-memory-vnode-out |
system-virtual-memory-vnode-page-ins | system-virtual-memory-vnode-page-outs |
system-virtual-memory-pager-wakes | system-virtual-memory-pager-scans |
system-virtual-memory-page-count | system-virtual-memory-free-reserved |
system-virtual-memory-free-minimum | system-virtual-memory-free-pages |
system-virtual-memory-wired-pages | system-virtual-memory-active-pages |
system-virtual-memory-cache-pages | system-virtual-memory-cache-pages-minimum |
system-virtual-memory-cache-pages-maximum | system-virtual-memory-load-averages |
system-last-pid | system-process-counts | system-cpu-states)*>

<!ELEMENT system-last-pid (#PCDATA)>

<!ELEMENT system-process EMPTY>

<!ELEMENT system-process-counts (process-total | process-run | process-sleep |
process-start | process-stop | process-zombie)*>

<!ELEMENT system-time (#PCDATA)>
<!ATTLIST system-time junos:seconds CDATA #IMPLIED>
<!ATTLIST system-time junos:microseconds CDATA #IMPLIED>

<!ELEMENT system-virtual-memory-active-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-cache-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-cache-pages-maximum (#PCDATA)>

<!ELEMENT system-virtual-memory-cache-pages-minimum (#PCDATA)>

<!ELEMENT system-virtual-memory-context-switches (#PCDATA)>

<!ELEMENT system-virtual-memory-copy-on-write-faults (#PCDATA)>

<!ELEMENT system-virtual-memory-copy-on-write-optimized (#PCDATA)>

<!ELEMENT system-virtual-memory-faults (#PCDATA)>

<!ELEMENT system-virtual-memory-free-minimum (#PCDATA)>

<!ELEMENT system-virtual-memory-free-pages (#PCDATA)>
```

```
<!ELEMENT system-virtual-memory-free-reserved (#PCDATA)>

<!ELEMENT system-virtual-memory-hard-interrupts (#PCDATA)>

<!ELEMENT system-virtual-memory-load-averages (load-average-one-minute |
load-average-five-minute | load-average-fifteen-minute)*>

<!ELEMENT system-virtual-memory-page-count (#PCDATA)>

<!ELEMENT system-virtual-memory-page-size (#PCDATA)>

<!ELEMENT system-virtual-memory-pager-scans (#PCDATA)>

<!ELEMENT system-virtual-memory-pager-wakes (#PCDATA)>

<!ELEMENT system-virtual-memory-reactivated-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-soft-interrupts (#PCDATA)>

<!ELEMENT system-virtual-memory-swap-enabled EMPTY>

<!ELEMENT system-virtual-memory-swapin (#PCDATA)>

<!ELEMENT system-virtual-memory-swapout (#PCDATA)>

<!ELEMENT system-virtual-memory-swapped-in-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-swapped-out-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-syscall (#PCDATA)>

<!ELEMENT system-virtual-memory-trap (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-in (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-out (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-page-ins (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-page-outs (#PCDATA)>

<!ELEMENT system-virtual-memory-wired-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-zeroed-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-zeroed-pages-optimized (#PCDATA)>

<!ELEMENT terminal-device (#PCDATA)>

<!ELEMENT text-size (#PCDATA)>
<!ATTLIST text-size junos:pages CDATA #IMPLIED>

<!ELEMENT timing-out EMPTY>

<!ELEMENT user-time (#PCDATA)>
<!ATTLIST user-time junos:seconds CDATA #IMPLIED>
```

```
<!ATTLIST user-time junos:microseconds CDATA #IMPLIED>

<!ELEMENT virtual-size (#PCDATA)>

<!ELEMENT voluntary-context-switch (#PCDATA)>

<!ELEMENT wait-child EMPTY>
```

Chapter 69

DTD for Telephony Gateway Module Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-tmgd.dtd, which lists the JUNOS XML tags that contain information about the Telephony Gateway Module, a component that supports voice-over-IP services on some models of J Series Services Router. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-tgmd. To review reference pages for the tags, see "Summary of Telephony Gateway Module Response Tags" on page 1945.

```
<!– Copyright (c) 2000-2008, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-tgmd.dtd –>

<!ELEMENT dsp-capacity (#PCDATA)>

<!ELEMENT dynamic-cac-activation-priority (#PCDATA)>

<!ELEMENT dynamic-cac-bbl (#PCDATA)>

<!ELEMENT dynamic-cac-information (dynamic-cac-interface-name |
dynamic-cac-interface-state | dynamic-cac-activation-priority | dynamic-cac-bbl)*>

<!ELEMENT dynamic-cac-interface-name (#PCDATA)>

<!ELEMENT dynamic-cac-interface-state (#PCDATA)>

<!ELEMENT media-gateway-controller (#PCDATA)>

<!ELEMENT media-gateway-controller-configuration (media-gateway-controller)*>

<!ELEMENT offline-reason (#PCDATA)>

<!ELEMENT slot (#PCDATA)>

<!ELEMENT telephony-interface-module-status (slot | tim-state | offline-reason)*>

<!ELEMENT telephony-interface-module-status-information
(telephony-interface-module-status)*>

<!ELEMENT tgm-dsp-capacity-information (dsp-capacity)*>
```

```
<!ELEMENT tgm-dynamic-cac-information (tgm-reported-bearer-bandwidth-limit |
tgm-dynamic-cac-list)*>

<!ELEMENT tgm-dynamic-cac-list (dynamic-cac-information)*>

<!ELEMENT tgm-information (media-gateway-controller-configuration)*>

<!ELEMENT tgm-reported-bearer-bandwidth-limit (#PCDATA)>

<!ELEMENT tim-state (#PCDATA)>
```

Chapter 70

DTD for UDP Forwarding Helper Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-helper.dtd, which lists the JUNOS XML tags that contain information about the User Datagram Protocol (UDP) forwarding helper. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-helper. To review reference pages for the tags, see "Summary of System Process Response Tags" on page 1931.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-helper.dtd –>

<!ELEMENT dropped-packets (#PCDATA)>

<!ELEMENT dropped-packets-badaddr (#PCDATA)>

<!ELEMENT dropped-packets-badread (#PCDATA)>

<!ELEMENT dropped-packets-badsend (#PCDATA)>

<!ELEMENT dropped-packets-nointerface (#PCDATA)>

<!ELEMENT dropped-packets-nolocaladdr (#PCDATA)>

<!ELEMENT dropped-packets-noroute (#PCDATA)>

<!ELEMENT dropped-packets-nortinst (#PCDATA)>

<!ELEMENT forwarded-packets (#PCDATA)>

<!ELEMENT helper-statistics-information (helper-statistics-service-information)*>

<!ELEMENT helper-statistics-service-information (service-name | received-packets |
forwarded-packets | dropped-packets | dropped-packets-nointerface |
dropped-packets-nortinst | dropped-packets-badread | dropped-packets-badsend |
dropped-packets-badaddr | dropped-packets-nolocaladdr | dropped-packets-noroute)*>

<!ELEMENT received-packets (#PCDATA)>

<!ELEMENT service-name (#PCDATA)>
```

Chapter 71

DTD for Virtual Router Redundancy Protocol Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-vrrpd.dtd, which lists the JUNOS XML tags that contain information about the Virtual Router Redundancy Protocol (VRRP). The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-vrrpd. To review reference pages for the tags, see "Summary of Virtual Router Redundancy Protocol Response Tags" on page 1950.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
<!– All rights reserved. –>
<!– junos-vrrpd.dtd –>

<!ELEMENT accept-data-mode (#PCDATA)>

<!ELEMENT active (#PCDATA)>

<!ELEMENT active-group (#PCDATA)>

<!ELEMENT active-inherit (vrrp-mode | active-node | active-group | accept-data-mode |
vip-count | vip | active-router-ip | virtual-mac)*>
<!ATTLIST active-inherit junos:style CDATA #IMPLIED>

<!ELEMENT active-node (#PCDATA)>

<!ELEMENT active-router-ip (#PCDATA)>

<!ELEMENT address (#PCDATA)>

<!ELEMENT advertisement-interval (#PCDATA)>

<!ELEMENT advertisement-received (#PCDATA)>

<!ELEMENT advertisement-sent (#PCDATA)>

<!ELEMENT advertisement-timer (#PCDATA)>

<!ELEMENT authentication-type (#PCDATA)>

<!ELEMENT backup-master-transitions (#PCDATA)>

<!ELEMENT bad-advertisement-timer-received (#PCDATA)>
```

```
<!ELEMENT bad-authentication-type-received (#PCDATA)>

<!ELEMENT bad-md5-digest-received (#PCDATA)>

<!ELEMENT bad-password-received (#PCDATA)>

<!ELEMENT bad-vip-count-received (#PCDATA)>

<!ELEMENT bad-vipaddr-received (#PCDATA)>

<!ELEMENT bandwidth (bandwidth-threshold | bandwidth-priority-cost | bandwidth-active
| priority-down-status | priority-cost | priority-active)*>
<!ATTLIST bandwidth junos:style CDATA #IMPLIED>

<!ELEMENT bandwidth-active (#PCDATA)>

<!ELEMENT bandwidth-priority-cost (#PCDATA)>

<!ELEMENT bandwidth-threshold (#PCDATA)>

<!ELEMENT computed-send-rate (#PCDATA)>

<!ELEMENT configured-priority (#PCDATA)>

<!ELEMENT current-priority (#PCDATA)>

<!ELEMENT current-priority-cost (#PCDATA)>

<!ELEMENT dead-timer (#PCDATA)>

<!ELEMENT delay (#PCDATA)>

<!ELEMENT delay-threshold (#PCDATA)>

<!ELEMENT delay-violations (#PCDATA)>

<!ELEMENT delay-violations-rate (#PCDATA)>

<!ELEMENT expiration-rate (#PCDATA)>

<!ELEMENT expirations (#PCDATA)>

<!ELEMENT group (#PCDATA)>

<!ELEMENT group-priority (#PCDATA)>

<!ELEMENT group-vrrp-pdu-error-statistics (bad-authentication-type-received |
bad-password-received | bad-md5-digest-received | bad-advertisement-timer-received |
bad-vip-count-received | bad-vipaddr-received)*>
<!ATTLIST group-vrrp-pdu-error-statistics junos:style CDATA #IMPLIED>

<!ELEMENT group-vrrp-pdu-statistics (advertisement-sent | advertisement-received)*>
<!ATTLIST group-vrrp-pdu-statistics junos:style CDATA #IMPLIED>

<!ELEMENT group-vrrp-state-transition-statistics (idle-master-transitions |
idle-backup-transitions | backup-master-transitions | master-backup-transitions)*>
<!ATTLIST group-vrrp-state-transition-statistics junos:style CDATA #IMPLIED>
```

```
<!ELEMENT groups (#PCDATA)>
<!ELEMENT idle-backup-transitions (#PCDATA)>
<!ELEMENT idle-master-transitions (#PCDATA)>
<!ELEMENT index (#PCDATA)>
<!ELEMENT interface (#PCDATA)>
<!ELEMENT interface-count (#PCDATA)>
<!ELEMENT interface-index (#PCDATA)>
<!ELEMENT interface-speed (#PCDATA)>
<!ELEMENT interface-state (#PCDATA)>
<!ELEMENT interface-tracking-state (#PCDATA)>
<!ELEMENT invalid-ipah-next-type-received (#PCDATA)>
<!ELEMENT invalid-vrrp-authentication-type-received (#PCDATA)>
<!ELEMENT invalid-vrrp-checksum-received (#PCDATA)>
<!ELEMENT invalid-vrrp-ip-count-received (#PCDATA)>
<!ELEMENT invalid-vrrp-pdu-type-received (#PCDATA)>
<!ELEMENT invalid-vrrp-ttl-value-received (#PCDATA)>
<!ELEMENT invalid-vrrp-version-received (#PCDATA)>
<!ELEMENT local-interface-address (#PCDATA)>
<!ELEMENT master-backup-transitions (#PCDATA)>
<!ELEMENT master-priority (#PCDATA)>
<!ELEMENT master-router (#PCDATA)>
<!ELEMENT master-router-ip (#PCDATA)>
<!ELEMENT master-router-uptime (#PCDATA)>
<!ELEMENT message (#PCDATA)>
<!ELEMENT missed-three-consecutive-send (#PCDATA)>
<!ELEMENT no-group-match-received (#PCDATA)>
<!ELEMENT packets-received (#PCDATA)>
<!ELEMENT parse-time (#PCDATA)>
```

```
<!ELEMENT peak-delay-violations-rate (#PCDATA)>

<!ELEMENT peak-expiration-rate (#PCDATA)>

<!ELEMENT peak-receive-rate (#PCDATA)>

<!ELEMENT peak-send-rate (#PCDATA)>

<!ELEMENT pending-priority (#PCDATA)>

<!ELEMENT physical-interface (#PCDATA)>

<!ELEMENT preempt (#PCDATA)>

<!ELEMENT preempt-hold (preempt | preempt-hold-time | accept-data-mode | vip-count |
vip)*>
<!ATTLIST preempt-hold junos:style CDATA #IMPLIED>

<!ELEMENT preempt-hold-time (#PCDATA)>

<!ELEMENT priority-active (#PCDATA)>

<!ELEMENT priority-cost (#PCDATA)>

<!ELEMENT priority-down-status (#PCDATA)>

<!ELEMENT priority-hold-time (#PCDATA)>

<!ELEMENT receive-rate (#PCDATA)>

<!ELEMENT remaining-time (#PCDATA)>

<!ELEMENT route-addr (#PCDATA)>

<!ELEMENT route-count (#PCDATA)>

<!ELEMENT route-instance (#PCDATA)>

<!ELEMENT route-priority (#PCDATA)>

<!ELEMENT route-state (#PCDATA)>

<!ELEMENT route-tracking-state (#PCDATA)>

<!ELEMENT router-ip (#PCDATA)>

<!ELEMENT send-rate (#PCDATA)>

<!ELEMENT snmp-interface-index (#PCDATA)>

<!ELEMENT timer-name (#PCDATA)>

<!ELEMENT timer-value (#PCDATA)>

<!ELEMENT track-route-entry (route-addr | route-state | route-priority | interface | group |
configured-priority | current-priority | vrrp-state)*>
<!ATTLIST track-route-entry junos:style CDATA #IMPLIED>
```

```
<!ELEMENT track-route-node-information (route-addr | route-instance | route-state |
route-priority)*>
<!ATTLIST track-route-node-information junos:style CDATA #IMPLIED>

<!ELEMENT track-vrrpd-interface (tracked-interface | interface-state | interface-speed |
current-priority-cost | bandwidth)*>
<!ATTLIST track-vrrpd-interface junos:style CDATA #IMPLIED>

<!ELEMENT tracked-interface (#PCDATA)>

<!ELEMENT tracking (#PCDATA)>

<!ELEMENT unit (#PCDATA)>

<!ELEMENT vip (#PCDATA)>

<!ELEMENT vip-count (#PCDATA)>

<!ELEMENT virtual-ip-address (#PCDATA)>

<!ELEMENT virtual-mac (#PCDATA)>

<!ELEMENT virtual-router-uptime (#PCDATA)>

<!ELEMENT vlan-address (#PCDATA)>

<!ELEMENT vlan-id (#PCDATA)>

<!ELEMENT vlan-tag (#PCDATA)>

<!ELEMENT vrrp-information (vrrp-interface)*>
<!ATTLIST vrrp-information junos:style CDATA #IMPLIED>

<!ELEMENT vrrp-interface (groups | active | physical-interface | interface | address |
interface-state | group | vrrp-state | timer-name | timer-value | local-interface-address |
vrrp-vlan | bandwidth | group-vrrp-pdu-statistics | group-vrrp-pdu-error-statistics |
group-vrrp-state-transition-statistics | preempt-hold | virtual-ip-address | unit | index |
interface-index | snmp-interface-index | vrrp-traps | group-priority | advertisement-interval
| authentication-type | delay-threshold | computed-send-rate | preempt |
accept-data-mode | vip-count | vip | dead-timer | master-priority | master-router-ip |
active-router-ip | master-router | router-ip | virtual-router-uptime | master-router-uptime |
virtual-mac | tracking | preempt-hold-time | current-priority | configured-priority |
priority-hold-time | remaining-time | pending-priority | interface-tracking-state |
interface-count | route-tracking-state | route-count | interface-speed |
current-priority-cost | tracked-interface | track-route-node-information |
track-vrrpd-interface | track-route-entry | vrrp-message | invalid-ipah-next-type-received |
invalid-vrrp-ttl-value-received | invalid-vrrp-version-received | invalid-vrrp-pdu-type-received
| invalid-vrrp-authentication-type-received | invalid-vrrp-ip-count-received |
invalid-vrrp-checksum-received | advertisement-timer | packets-received |
no-group-match-received | advertisement-sent | advertisement-received | vrrp-mode |
active-node | active-group | active-inherit)*>

<!ELEMENT vrrp-interface-profile (interface | unit | group | advertisement-timer |
delay)*>

<!ELEMENT vrrp-message (message)*>
```

```
<!ELEMENT vrrp-mode (#PCDATA)>

<!ELEMENT vrrp-profile-statistics (vrrp-interface-profile | parse-time | delay-violations |
delay-violations-rate | peak-delay-violations-rate | missed-three-consecutive-send |
send-rate | peak-send-rate | receive-rate | peak-receive-rate | expirations | expiration-rate
| peak-expiration-rate)*>

<!ELEMENT vrrp-state (#PCDATA)>

<!ELEMENT vrrp-traps (#PCDATA)>

<!ELEMENT vrrp-vlan (physical-interface | unit | vlan-id | vlan-tag | vlan-address)*>
<!ATTLIST vrrp-vlan junos:style CDATA #IMPLIED>
```

Chapter 72

DTD for X.509 Certificate Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called junos-x509-certificate.dtd, which lists the JUNOS XML tags that contain X.509 certificate information. The associated XML namespace is http://xml.juniper.net/junos/9.6R1/junos-x509-certificate. To review reference pages for the tags, see "Summary of X.509 Certificate Response Tags" on page 1964.

```
<!– Copyright (c) 2000-2009, Juniper Networks, Inc. –>
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<!– junos-x509-certificate.dtd –>

<!ELEMENT alternate-subject (#PCDATA)>

<!ELEMENT alternate-subject-list (alternate-subject)*>

<!ELEMENT auto-re-enrollment (auto-re-enrollment-status |
auto-re-enrollment-next-trigger-time)*>

<!ELEMENT auto-re-enrollment-next-trigger-time (#PCDATA)>

<!ELEMENT auto-re-enrollment-status (#PCDATA)>

<!ELEMENT certificate-type (#PCDATA)>

<!ELEMENT common-name (#PCDATA)>

<!ELEMENT country-name (#PCDATA)>

<!ELEMENT crl-issuer (#PCDATA)>

<!ELEMENT crl-issuer-alternate-subject (#PCDATA)>

<!ELEMENT crl-issuer-alternate-subject-list (crl-issuer-alternate-subject)*>

<!ELEMENT crl-issuer-detail (distinguished-name)*>

<!ELEMENT crl-number (#PCDATA)>

<!ELEMENT crl-revocation-date (#PCDATA)>

<!ELEMENT crl-revocation-list (revoked-cert-serial-number | crl-revocation-date)*>

<!ELEMENT crl-validity (effective-date | next-update)*>
```

```
<!ELEMENT crl-version (#PCDATA)>

<!ELEMENT distinguished-name (organization-name | organizational-unit-name |
country-name | state-or-province-name | locality-name | common-name | email-address |
domain-component)*>

<!ELEMENT distribution-crl (#PCDATA)>

<!ELEMENT distribution-crl-list (distribution-crl)*>

<!ELEMENT domain-component (#PCDATA)>

<!ELEMENT effective-date (#PCDATA)>

<!ELEMENT email-address (#PCDATA)>

<!ELEMENT fingerprint (fingerprint-hash-algorithm | fingerprint-content)*>

<!ELEMENT fingerprint-content (#PCDATA)>

<!ELEMENT fingerprint-hash-algorithm (#PCDATA)>

<!ELEMENT identifier (#PCDATA)>

<!ELEMENT issue-info (recipient | issued-by)*>

<!ELEMENT issued-by (#PCDATA)>

<!ELEMENT issuer (distinguished-name)*>

<!ELEMENT key-contents (#PCDATA)>

<!ELEMENT key-usage (#PCDATA)>

<!ELEMENT key-usage-list (key-usage)*>

<!ELEMENT locality-name (#PCDATA)>

<!ELEMENT next-update (#PCDATA)>

<!ELEMENT not-after (#PCDATA)>

<!ELEMENT not-before (#PCDATA)>

<!ELEMENT organization-name (#PCDATA)>

<!ELEMENT organizational-unit-name (#PCDATA)>

<!ELEMENT public-key (public-key-algorithm | public-key-length |
public-key-verification-status)*>

<!ELEMENT public-key-algorithm (#PCDATA)>

<!ELEMENT public-key-contents-list (key-contents)*>

<!ELEMENT public-key-length (#PCDATA)>
```

```
<!ELEMENT public-key-verification-status (#PCDATA)>

<!ELEMENT recipient (#PCDATA)>

<!ELEMENT revoked-cert-serial-number (#PCDATA)>

<!ELEMENT serial-number-list (serial-number-x509)*>

<!ELEMENT serial-number-x509 (#PCDATA)>

<!ELEMENT signature-algorithm (#PCDATA)>

<!ELEMENT state-or-province-name (#PCDATA)>

<!ELEMENT status (#PCDATA)>

<!ELEMENT subject (distinguished-name)*>

<!ELEMENT validity (not-before | not-after)*>

<!ELEMENT version (#PCDATA)>

<!ELEMENT x509-certificate-add-results (x509-certificate-add-success |
x509-certificate-info)*>

<!ELEMENT x509-certificate-add-success EMPTY>

<!ELEMENT x509-certificate-info (issue-info | serial-number-list | public-key | fingerprint |
public-key-contents-list | alternate-subject-list | key-usage-list | distribution-crl-list |
signature-algorithm | identifier | validity | version | auto-re-enrollment | certificate-type |
status | issuer | subject)*>
<!ATTLIST x509-certificate-info junos:style CDATA #IMPLIED>

<!ELEMENT x509-certificate-info-list (x509-certificate-info)*>

<!ELEMENT x509-crl-information (crl-number | crl-revocation-list | crl-validity | crl-version
| crl-issuer | identifier | crl-issuer-alternate-subject-list | crl-issuer-detail)*>
<!ATTLIST x509-crl-information junos:style CDATA #IMPLIED>
```

Part 3

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