



**JUNOS® Software**

# **JUNOS XML API Operational Reference**

*Release 9.3*

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## Part 1

### JUNOS XML Operational Tag Elements

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# About This Reference

This preface provides the following guidelines for using the *JUNOS® Software XML API Operational Reference* and related Juniper Networks, Inc., technical documents:

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- Audience on page lxiv
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- Using the Examples in This Manual on page lxv
- Using the Examples in This Manual on page lxv
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## Objectives

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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 routing platform. 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:** This reference documents the JUNOS XML API for JUNOS Release 9.3. 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/>.

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## Audience

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This reference is designed for Juniper Networks customers who want to write custom applications for monitoring routing platforms 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 Routing Platforms

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

- EX-series
- J-series
- M-series
- MX-series
- T-series

## Using the Examples in This Manual

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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.xml;
}
```

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.

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

**Table 2: Text and Syntax Conventions**

Convention	Element	Example
<b>Bold text like this</b>	Represents text that you type.	To enter configuration mode, type the <b>configure</b> command:  user@host> <b>configure</b>
Fixed-width text like this	Represents output on the terminal screen.	user@host> <b>show chassis alarms</b> No alarms currently active
<i>Italic text like this</i>	<ul style="list-style-type: none"> <li>■ Introduces important new terms.</li> <li>■ Identifies book names.</li> <li>■ Identifies RFC and Internet draft titles.</li> </ul>	<ul style="list-style-type: none"> <li>■ A policy <i>term</i> is a named structure that defines match conditions and actions.</li> <li>■ <i>JUNOS System Basics Configuration Guide</i></li> <li>■ RFC 1997, <i>BGP Communities Attribute</i></li> </ul>
<i>Italic text like this</i>	Represents variables (options for which you substitute a value) in commands or configuration statements.	Configure the machine's domain name: [edit] root@# <b>set system domain-name</b> <i>domain-name</i>
Plain text like this	Represents names of configuration statements, commands, files, and directories; IP addresses; configuration hierarchy levels; or labels on routing platform components.	<ul style="list-style-type: none"> <li>■ To configure a stub area, include the <b>stub</b> statement at the [edit protocols ospf area <i>area-id</i>] hierarchy level.</li> <li>■ The console port is labeled <b>CONSOLE</b>.</li> </ul>
< > (angle brackets)	Enclose optional keywords or variables.	stub <default-metric <i>metric</i> >;
(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 ( <i>string1</i>   <i>string2</i>   <i>string3</i> )
# (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 [ <i>community-ids</i> ]
Indentation and braces ( { } )	Identify a level in the configuration hierarchy.	[edit] routing-options { static { route default { nexthop <i>address</i> ; retain; } } }
; (semicolon)	Identifies a leaf statement at a configuration hierarchy level.	
<b>J-Web GUI Conventions</b>		
<b>Bold text like this</b>	Represents J-Web graphical user interface (GUI) items you click or select.	<ul style="list-style-type: none"> <li>■ In the Logical Interfaces box, select <b>All Interfaces</b>.</li> <li>■ To cancel the configuration, click <b>Cancel</b>.</li> </ul>
> (bold right angle bracket)	Separates levels in a hierarchy of J-Web selections.	In the configuration editor hierarchy, select <b>Protocols&gt;Ospf</b> .

## List of Technical Publications

Table 3 lists the software and hardware guides and release notes for the supported Juniper Networks J-series, M-series, MX-series, and T-series routing platforms and describes the contents of each document. Table 4 on page lxxi lists the books included in the *Network Operations Guide* series. Table 5 on page lxxi lists the manuals and release notes supporting JUNOS software with enhanced services. All documents are available at <http://www.juniper.net/techpubs/>.

Table 6 on page lxxii lists additional books on Juniper Networks solutions that you can order through your bookstore. A complete list of such books is available at <http://www.juniper.net/books>.

**Table 3: Technical Documentation for Supported Routing Platforms (1 of 4)**

Document	Description
<b>JUNOS Internet Software Configuration Guides</b>	
<i>Access Privilege</i>	Explains how to configure access privileges in user classes by using permission flags and regular expressions. Lists the permission flags along with their associated command-line interface (CLI) operational mode commands and configuration statements.
<i>Class of Service</i>	Provides an overview of the class-of-service (CoS) functions of the JUNOS software and describes how to configure CoS features, including configuring multiple forwarding classes for transmitting packets, defining which packets are placed into each output queue, scheduling the transmission service level for each queue, and managing congestion through the random early detection (RED) algorithm.
<i>CLI User Guide</i>	Describes how to use the JUNOS command-line interface (CLI) to configure, monitor, and manage Juniper Networks routing platforms. This material was formerly covered in the <i>JUNOS System Basics Configuration Guide</i> .
<i>Feature Guide</i>	Provides a detailed explanation and configuration examples for several of the most complex features in the JUNOS software.
<i>High Availability</i>	Provides an overview of hardware and software resources that ensure a high level of continuous routing platform operation and describes how to configure high availability (HA) features such as nonstop routing (NSR) and graceful Routing Engine switchover (GRES).
<i>MPLS Applications</i>	Provides an overview of traffic engineering concepts and describes how to configure traffic engineering protocols.
<i>Multicast Protocols</i>	Provides an overview of multicast concepts and describes how to configure multicast routing protocols.
<i>Multiplay Solutions</i>	Describes how you can deploy IPTV and voice over IP (VoIP) services in your network.
<i>MX-series Layer 2 Configuration Guide</i>	Provides an overview of the Layer 2 functions of the MX-series routers, including configuring bridging domains, MAC address and VLAN learning and forwarding, and spanning-tree protocols. It also details the routing instance types used by Layer 2 applications. All of this material was formerly covered in the <i>JUNOS Routing Protocols Configuration Guide</i> .
<i>MX-series Solutions Guide</i>	Describes common configuration scenarios for the Layer 2 features supported on the MX-series routers, including basic bridged VLANs with normalized VLAN tags, aggregated Ethernet links, bridge domains, Multiple Spanning Tree Protocol (MSTP), and integrated routing and bridging (IRB).
<i>Network Interfaces</i>	Provides an overview of the network interface functions of the JUNOS software and describes how to configure the network interfaces on the routing platform.



**Table 3: Technical Documentation for Supported Routing Platforms (2 of 4)**

Document	Description
<i>Network Management</i>	Provides an overview of network management concepts and describes how to configure various network management features, such as SNMP and accounting options.
<i>Policy Framework</i>	Provides an overview of policy concepts and describes how to configure routing policy, firewall filters, forwarding options, and cflowd.
<i>Routing Protocols</i>	Provides an overview of routing concepts and describes how to configure routing, routing instances, and unicast routing protocols.
<i>Secure Configuration Guide for Common Criteria and JUNOS-FIPS</i>	Provides an overview of secure Common Criteria and JUNOS-FIPS protocols for the JUNOS Internet software and describes how to install and configure secure Common Criteria and JUNOS-FIPS on a routing platform.
<i>Services Interfaces</i>	Provides an overview of the services interfaces functions of the JUNOS software and describes how to configure the services interfaces on the routing platform.
<i>Software Installation and Upgrade Guide</i>	Describes the JUNOS software components and packaging and explains how to initially configure, reinstall, and upgrade the JUNOS system software. This material was formerly covered in the <i>JUNOS System Basics Configuration Guide</i> .
<i>System Basics</i>	Describes Juniper Networks routing platforms, and provides information about how to configure basic system parameters, supported protocols and software processes, authentication, and a variety of utilities for managing your router on the network.
<i>VPNs</i>	Provides an overview and describes how to configure Layer 2 and Layer 3 virtual private networks (VPNs), virtual private LAN service (VPLS), and Layer 2 circuits. Provides configuration examples.
<b>JUNOS References</b>	
<i>Hierarchy and RFC Reference</i>	Describes the JUNOS configuration mode commands. Provides a hierarchy reference that displays each level of a configuration hierarchy, and includes all possible configuration statements that can be used at that level. This material was formerly covered in the <i>JUNOS System Basics Configuration Guide</i> .
<i>Interfaces Command Reference</i>	Describes the JUNOS software operational mode commands you use to monitor and troubleshoot interfaces.
<i>Routing Protocols and Policies Command Reference</i>	Describes the JUNOS software operational mode commands you use to monitor and troubleshoot routing protocols and policies, including firewall filters.
<i>System Basics and Services Command Reference</i>	Describes the JUNOS software operational mode commands you use to monitor and troubleshoot system basics, including commands for real-time monitoring and route (or path) tracing, system software management, and chassis management. Also describes commands for monitoring and troubleshooting services such as CoS, IP Security (IPSec), stateful firewalls, flow collection, and flow monitoring.
<i>System Log Messages Reference</i>	Describes how to access and interpret system log messages generated by JUNOS software modules and provides a reference page for each message.
<b>J-Web User Guide</b>	
<i>J-Web Interface User Guide</i>	Describes how to use the J-Web graphical user interface (GUI) to configure, monitor, and manage Juniper Networks routing platforms.
<b>JUNOS API and Scripting Documentation</b>	
<i>JUNOScript API Guide</i>	Describes how to use the JUNOScript application programming interface (API) to monitor and configure Juniper Networks routing platforms.
<i>JUNOS XML API Configuration Reference</i>	Provides reference pages for the configuration tag elements in the JUNOS XML API.
<i>JUNOS XML API Operational Reference</i>	Provides reference pages for the operational tag elements in the JUNOS XML API.
<i>NETCONF API Guide</i>	Describes how to use the NETCONF API to monitor and configure Juniper Networks routing platforms.

**Table 3: Technical Documentation for Supported Routing Platforms (3 of 4)**

Document	Description
<i>JUNOS Configuration and Diagnostic Automation Guide</i>	Describes how to use the commit script and self-diagnosis features of the JUNOS software. This guide explains how to enforce custom configuration rules defined in scripts, how to use commit script macros to provide simplified aliases for frequently used configuration statements, and how to configure diagnostic event policies.
<b>Hardware Documentation</b>	
<i>Hardware Guide</i>	Describes how to install, maintain, and troubleshoot routing platforms and components. Each platform has its own hardware guide.
<i>PIC Guide</i>	Describes the routing platform's Physical Interface Cards (PICs). Each platform has its own PIC guide.
<i>DPC Guide</i>	Describes the Dense Port Concentrators (DPCs) for all MX-series routers.
<b>JUNOScope Documentation</b>	
<i>JUNOScope Software User Guide</i>	Describes the JUNOScope software graphical user interface (GUI), how to install and administer the software, and how to use the software to manage routing platform configuration files and monitor routing platform operations.
<b>Advanced Insight Solutions (AIS) Documentation</b>	
<i>Advanced Insight Solutions Guide</i>	Describes the Advanced Insight Manager (AIM) application, which provides a gateway between JUNOS devices and Juniper Support Systems (JSS) for case management and intelligence updates. Explains how to run AI scripts on Juniper Networks devices.
<b>J-series Services Router Documentation</b>	
<i>Getting Started Guide</i>	Provides an overview, basic instructions, and specifications for J-series Services Routers. The guide explains how to prepare your site for installation, unpack and install the router and its components, install licenses, and establish basic connectivity. Use the <i>Getting Started Guide</i> for your router model.
<i>Basic LAN and WAN Access Configuration Guide</i>	Explains how to configure the interfaces on J-series Services Routers for basic IP routing with standard routing protocols, ISDN backup, and digital subscriber line (DSL) connections.
<i>Advanced WAN Access Configuration Guide</i>	Explains how to configure J-series Services Routers in virtual private networks (VPNs) and multicast networks, configure data link switching (DLSw) services, and apply routing techniques such as policies, stateless and stateful firewall filters, IP Security (IPSec) tunnels, and class-of-service (CoS) classification for safer, more efficient routing.
<i>Administration Guide</i>	Shows how to manage users and operations, monitor network performance, upgrade software, and diagnose common problems on J-series Services Routers.
<b>Release Notes</b>	
<i>JUNOS Release Notes</i>	Summarize new features and known problems for a particular software release, provide corrections and updates to published JUNOS, JUNOScript, and NETCONF manuals, provide information that might have been omitted from the manuals, and describe upgrade and downgrade procedures.
<i>Hardware Release Notes</i>	Describe the available documentation for the routing platform and the supported PICs, and summarize known problems with the hardware and accompanying software. Each platform has its own release notes.
<i>JUNOScope Release Notes</i>	Contain corrections and updates to the published JUNOScope manual, provide information that might have been omitted from the manual, and describe upgrade and downgrade procedures.
<i>AIS Release Notes</i>	Summarize AIS new features and guidelines, identify known and resolved problems, provide information that might have been omitted from the manuals, and provide initial setup, upgrade, and downgrade procedures.

**Table 3: Technical Documentation for Supported Routing Platforms (4 of 4)**

Document	Description
<i>AIS AI Script Release Notes</i>	Summarize AIS Scripts new features, identify known and resolved problems, provide information that might have been omitted from the manuals, and provide instructions for automatic and manual installation, including deleting and rolling back.
<i>J-series Services Router Release Notes</i>	Briefly describe the J-series Services Router features, identify known hardware problems, and provide upgrade and downgrade instructions.

**Table 4: JUNOS Internet Software Network Operations Guides**

Book	Description
<i>Baseline</i>	Describes the most basic tasks for running a network using Juniper Networks products. Tasks include upgrading and reinstalling JUNOS software, gathering basic system management information, verifying your network topology, and searching log messages.
<i>Interfaces</i>	Describes tasks for monitoring interfaces. Tasks include using loopback testing and locating alarms.
<i>MPLS</i>	Describes tasks for configuring, monitoring, and troubleshooting an example MPLS network. Tasks include verifying the correct configuration of the MPLS and RSVP protocols, displaying the status and statistics of MPLS running on all routers in the network, and using the layered MPLS troubleshooting model to investigate problems with an MPLS network.
<i>MPLS Log Reference</i>	Describes MPLS status and error messages that appear in the output of the <b>show mpls lsp extensive</b> command. The guide also describes how and when to configure Constrained Shortest Path First (CSPF) and RSVP trace options, and how to examine a CSPF or RSVP failure in a sample network.
<i>MPLS Fast Reroute</i>	Describes operational information helpful in monitoring and troubleshooting an MPLS network configured with fast reroute (FRR) and load balancing.
<i>Hardware</i>	Describes tasks for monitoring M-series and T-series routing platforms.

To configure and operate a J-series Services Router running JUNOS software with enhanced services, you must also use the configuration statements and operational mode commands documented in JUNOS configuration guides and command references. To configure and operate a WX Integrated Services Module, you must also use WX documentation.

**Table 5: JUNOS Software with Enhanced Services Documentation**

Book	Description
<i>JUNOS Software with Enhanced Services Design and Implementation Guide</i>	Provides guidelines and examples for designing and implementing IP Security (IPSec) virtual private networks (VPNs), firewalls, and routing on J-series routers running JUNOS software with enhanced services.
<i>JUNOS Software with Enhanced Services J-series Services Router Quick Start</i>	Explains how to quickly set up a J-series router. This document contains router declarations of conformity.
<i>JUNOS Software with Enhanced Services J-series Services Router Getting Started Guide</i>	Provides an overview, basic instructions, and specifications for J-series Services Routers. This guide explains how to prepare a site, unpack and install the router, replace router hardware, and establish basic router connectivity. This guide contains hardware descriptions and specifications.
<i>JUNOS Software with Enhanced Services Migration Guide</i>	Provides instructions for migrating an SSG device running ScreenOS software or a J-series router running the JUNOS software to JUNOS software with enhanced services.

Book	Description
<i>JUNOS Software with Enhanced Services Interfaces and Routing Configuration Guide</i>	Explains how to configure J-series router interfaces for basic IP routing with standard routing protocols, ISDN service, firewall filters (access control lists), and class-of-service (CoS) traffic classification.
<i>JUNOS Software with Enhanced Services Security Configuration Guide</i>	Explains how to configure and manage security services such as stateful firewall policies, IPSec VPNs, firewall screens, Network Address Translation (NAT), and router interface modes, Public Key Cryptography, and Application Layer Gateways (ALGs).
<i>JUNOS Software with Enhanced Services Administration Guide</i>	Shows how to monitor the router and routing operations, firewall and security services, system alarms and events, and network performance. This guide also shows how to administer user authentication and access, upgrade software, and diagnose common problems.
<i>JUNOS Software with Enhanced Services CLI Reference</i>	Provides the complete JUNOS software with enhanced services configuration hierarchy and describes the configuration statements and operational mode commands not documented in the standard JUNOS manuals.
<i>WCX Integrated Services Module Installation and Configuration Guide</i>	Explains how to install and initially configure a WCX Integrated Services Module in a J-series router for application acceleration.
<i>JUNOS Software with Enhanced Services Release Notes</i>	Summarize new features and known problems for a particular release of JUNOS software with enhanced services on J-series routers, including J-Web interface features and problems. The release notes also contain corrections and updates to the manuals and software upgrade and downgrade instructions for JUNOS software with enhanced services.

**Table 6: Additional Books Available Through <http://www.juniper.net/books>**

Book	Description
<i>Interdomain Multicast Routing</i>	Provides background and in-depth analysis of multicast routing using Protocol Independent Multicast sparse mode (PIM SM) and Multicast Source Discovery Protocol (MSDP); details any-source and source-specific multicast delivery models; explores multiprotocol BGP (MBGP) and multicast IS-IS; explains Internet Gateway Management Protocol (IGMP) versions 1, 2, and 3, lists packet formats for IGMP, PIM, and MSDP; and provides a complete glossary of multicast terms.
<i>JUNOS Cookbook</i>	Provides detailed examples of common JUNOS software configuration tasks, such as basic router configuration and file management, security and access control, logging, routing policy, firewalls, routing protocols, MPLS, and VPNs.
<i>MPLS-Enabled Applications</i>	Provides an overview of Multiprotocol Label Switching (MPLS) applications (such as Layer 3 virtual private networks [VPNs], Layer 2 VPNs, virtual private LAN service [VPLS], and pseudowires), explains how to apply MPLS, examines the scaling requirements of equipment at different points in the network, and covers the following topics: point-to-multipoint label switched paths (LSPs), DiffServ-aware traffic engineering, class of service, interdomain traffic engineering, path computation, route target filtering, multicast support for Layer 3 VPNs, and management and troubleshooting of MPLS networks.
<i>OSPF and IS-IS: Choosing an IGP for Large-Scale Networks</i>	Explores the full range of characteristics and capabilities for the two major link-state routing protocols: Open Shortest Path First (OSPF) and IS-IS. Explains architecture, packet types, and addressing; demonstrates how to improve scalability; shows how to design large-scale networks for maximum security and reliability; details protocol extensions for MPLS-based traffic engineering, IPv6, and multipoint routing; and covers troubleshooting for OSPF and IS-IS networks.

Book	Description
<i>Routing Policy and Protocols for Multivendor IP Networks</i>	Provides a brief history of the Internet, explains IP addressing and routing (Routing Information Protocol [RIP], OSPF, IS-IS, and Border Gateway Protocol [BGP]), explores ISP peering and routing policies, and displays configurations for both Juniper Networks and other vendors' routers.
<i>The Complete IS-IS Protocol</i>	Provides the insight and practical solutions necessary to understand the IS-IS protocol and how it works by using a multivendor, real-world approach.

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## 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 47
- Summary of Operational Response Tag Elements on page 293





## Chapter 1

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

Table 7 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 8.

For more information about each request tag, see “Summary of Operational Request Tag Elements” on page 47. For more information about response tag elements, see “Summary of Operational Response Tag Elements” on page 293. 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 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (1 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
clear arp	<clear-arp-table> clear_arp_table	<clear-arp-table-results>
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

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (2 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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 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 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 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 passive-monitoring	<clear-passive-monitoring> clear_passive_monitoring	NONE

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (3 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 services dynamic-flow-capture criteria	<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> 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 pgcp gates	<clear-service-pgcp-gates> clear_service_pgcp_gates	<service-pgcp-gates-drain-information>
clear services pgcp statistics	<clear-service-pgcp-statistics> clear_service_pgcp_statistics	<service-pgcp-statistics-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 vpls mac-table	<clear-vpls-mac-table> clear_vpls_mac_table	NONE
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (4 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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
op	<op-script> op_script	NONE
ping	<ping> ping	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 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>
request services ggsn restart node	<request-ggsn-restart-node> request_ggsn_restart_node	<node-action-results>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (5 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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
request system software abort in-service-upgrade	<abort-in-service-upgrade> abort_in_service_upgrade	NONE

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (6 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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 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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (7 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
show chassis environment cb	<get-environment-cb-information> get_environment_cb_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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (8 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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>



**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (9 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (10 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (11 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
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 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>
show dot1x static-mac-address	<get-dot1x-static-mac-addresses> get_dot1x_static_mac_addresses	<dot1x-static-mac-addresses>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (12 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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_mspininfo_connections	<mspinfo-raw-output>
show extension-provider system packages	<get-mspinfo-packages> get_mspininfo_packages	<mspinfo-raw-output>
show extension-provider system processes	<get-mspinfo-processes> get_mspininfo_processes	<mspinfo-raw-output>
show extension-provider system processes brief	<get-mspinfo-processes-brief> get_mspininfo_processes_brief	<mspinfo-raw-output>
show extension-provider system processes extensive	<get-mspinfo-processes-extensive> get_mspininfo_processes_extensive	<mspinfo-raw-output>
show extension-provider system uptime	<get-mspinfo-uptime> get_mspininfo_uptime	<mspinfo-raw-output>
show extension-provider system virtual-memory	<get-mspinfo-virtual-memory> get_mspininfo_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>
show helper statistics	<get-helper-statistics-information> get_helper_statistics_information	<helper-statistics-information>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (13 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (14 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
show lacp interfaces	<get-lacp-interface-information> get_lacp_interface_information	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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (15 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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 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 overview	<get-mip-ha-overview-information> get_mip_ha_overview_information	<mip-ha-overview-information>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (16 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
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 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>



**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (17 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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 link-fault-management	<get-lfmd-information> get_lfmd_information	<lfmd-information>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (18 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (19 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (20 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (21 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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 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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (22 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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 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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (23 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (24 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show services pgcp active-configuration	<get-pgcpd-active-configuration> get_pgcpd_active_configuration	<pgcpd-active-configuration>
show services pgcp conversations	<get-service-pgcp-conversation-information> get_service_pgcp_conversation_information	<service-pgcp-conversation-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 gates	<get-service-pgcp-gates> get_service_pgcp_gates	<service-pgcp-gates>
show services pgcp gates gate-id	<get-service-pgcp-gates-gate-id> get_service_pgcp_gates_gate_id	<service-pgcp-gates-gate-id>
show services pgcp gates gateway	<get-service-pgcp-gates-gateway> get_service_pgcp_gates_gateway	<service-pgcp-gates-gateway>
show services pgcp root-termination	<get-services-pgcpd-root-termination> get_services_pgcpd_root_termination	<services-pgcpd-root-termination>
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 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 statistics packet-drops	<get-service-set-packet-drop-statistics> get_service_set_packet_drop_statistics	<service-set-packet-drop-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>



**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (25 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (26 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
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>
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 processes health	<get-process-health-information> get_process_health_information	<process-health-information>

**Table 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (27 of 28)**

CLI Command	Request Tag Element and Perl Method	Response Tag Element
show system resource-cleanup processes	<get-system-resource-cleanup-processes-information> get_system_resource_cleanup_processes_information	<system-resource-cleanup-processes-information>
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 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 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 7: Mapping of CLI Commands to JUNOS XML Operational Tag Elements and Perl Methods (28 of 28)**

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

Table 8 maps JUNOS XML operational request tag elements to response tag elements and CLI commands.

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (1 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<abort-in-service-upgrade>	NONE	request system software abort 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-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-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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (2 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<clear-bridge-interface-mac-table>	NONE	clear bridge mac-table interface
<clear-bridge-mac-table>	NONE	clear bridge mac-table
<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-dot1x-interface-session>	<dot1x-interface-session>	clear dot1x interface
<clear-dot1x-mac-session>	<dot1x-mac-session>	clear dot1x mac-address
<clear-helper-statistics-information>	NONE	clear helper statistics
<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-node-secret-file>	NONE	clear network-access securid-node-secret-file
<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-server-statistics-information>	NONE	clear dhcp server statistics
<clear-service-pgcp-gates>	<service-pgcp-gates-drain-information>	clear services pgcp gates
<clear-service-pgcp-statistics>	<service-pgcp-statistics-drain-information>	clear services pgcp statistics
<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-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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (3 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-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-neighbor-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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (4 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-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-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-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
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (5 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-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-addresses>	<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



**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (6 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<get-environment-cb-information>	<environment-component-information>	show chassis environment cb
<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-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
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (7 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-history-results>	<history-results>	show services rpm history-results
<get-igmp-group-information>	<igmp-group-information>	show igmp group
<get-igmp-interface-information>	<igmp-interface-information>	show igmp interface
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (8 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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
<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-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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (9 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<get-link-services-cpu-usage>	<lsqinfo-cpu-usage-information>	show services link-services cpu-usage
<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-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-mld-group-information>	<mld-group-information>	show mld group
<get-mld-interface-information>	<mld-interface-information>	show mld interface
<get-mld-statistics-information>	<mld-statistics-information>	show mld statistics
<get-mppls-admin-group-information>	<mppls-admin-group-information>	show mppls admin-groups
<get-mppls-call-admission-control-information>	<mppls-call-admission-control-information>	show mppls call-admission-control
<get-mppls-cspf-information>	<mppls-cspf-information>	show mppls cspf
<get-mppls-diffserv-te-information>	<mppls-diffserv-te-information>	show mppls diffserv-te
<get-mppls-interface-information>	<mppls-interface-information>	show mppls interface
<get-mppls-lsp-defaults-information>	<mppls-lsp-defaults-information>	show mppls lsp defaults
<get-mppls-lsp-information>	<mppls-lsp-information>	show mppls lsp
<get-mppls-path-information>	<mppls-path-information>	show mppls 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
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (10 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-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-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
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (11 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-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
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (12 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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
<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-cos-diffserv-statistics>	<service-cos-diffserv-statistics>	show services cos statistics diffserv

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (13 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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-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-conversation-information>	<service-pgcp-conversation-information>	show services pgcp conversations
<get-service-pgcp-flow-table-information>	<service-pgcp-flow-table-information>	show services pgcp flows
<get-service-pgcp-gates-gate-id>	<service-pgcp-gates-gate-id>	show services pgcp gates gate-id
<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>	<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-summary-information>	<service-set-summary-information>	show services service-sets summary
<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



**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (14 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<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
<get-services-l2tp-radius-authentication-statistics-information>	<services-l2tp-radius-authentication-statistics-information>	show services l2tp radius authentication statistics
<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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (15 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<get-ssb-information>	<scb-information>	show chassis ssb
<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
<get-system-resource-cleanup-processes-information>	<system-resource-cleanup-processes-information>	show system resource-cleanup processes
<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
<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-event-scripts>	<event-scripts-reload>	request system scripts event-scripts reload
<request-delete-rescue-configuration>	<rescue-management-results>	request system configuration rescue delete
<request-end-session>	<end-session>	quit

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (16 of 17)**

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-license-delete>	NONE	request system license delete
<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-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

**Table 8: Mapping of JUNOS XML Operational Tag Elements to CLI Commands (17 of 17)**

Request Tag Element	Response Tag Element	CLI Command
<request-system-storage-cleanup>	<system-storage-cleanup-information>	request system storage cleanup
<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 lxvii.

### <abort-in-service-upgrade>

---

<b>Usage</b>	<code>&lt;rpc&gt;</code> <b><code>&lt;abort-in-service-upgrade/&gt;</code></b> <code>&lt;/rpc&gt;</code>
<b>Description</b>	Abort in-service software upgrade.

### <clear-aaa-subscriber-table>

---

<b>Usage</b>	<code>&lt;rpc&gt;</code> <b><code>&lt;clear-aaa-subscriber-table&gt;</code></b> <code>&lt;username&gt;username&lt;/username&gt;</code> <code>&lt;!-- mandatory --&gt;</code> <b><code>&lt;/clear-aaa-subscriber-table&gt;</code></b> <code>&lt;/rpc&gt;</code>
<b>Description</b>	Logout the subscriber and clear the session entry.
<b>Contents</b>	<code>&lt;username&gt;</code> —Subscriber session identifier.

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

---

<b>Usage</b>	<code>&lt;rpc&gt;</code> <b><code>&lt;clear-aaa-subscriber-table-specific-statistics&gt;</code></b> <code>&lt;username&gt;username&lt;/username&gt;</code> <code>&lt;!-- mandatory --&gt;</code> <b><code>&lt;/clear-aaa-subscriber-table-specific-statistics&gt;</code></b> <code>&lt;/rpc&gt;</code>
<b>Description</b>	Clear subscriber statistics.
<b>Contents</b>	<code>&lt;username&gt;</code> —Subscriber session identifier.

## <clear-arp-table>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;clear-arp-table&gt;     &lt;hostname&gt;hostname&lt;/hostname&gt;     &lt;vpn&gt;vpn&lt;/vpn&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/clear-arp-table&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Clear address resolution information.
<b>Contents</b>	<p>&lt;hostname&gt;—Name of host.</p> <p>&lt;logical-system&gt;—Name of logical system.</p> <p>&lt;vpn&gt;—Name of VPN routing table.</p>

## <clear-authentication-pending-table>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;clear-authentication-pending-table&gt;      &lt;clear-authentication-pending-table-specific&gt;clear-authentication-pending-table-specific     &lt;/clear-authentication-pending-table-specific&gt;   &lt;/clear-authentication-pending-table&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Clear pending authentication requests.
<b>Contents</b>	<clear-authentication-pending-table-specific>—Clear information for a specific request.

## <clear-authentication-statistics>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;clear-authentication-statistics/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Clear general authentication statistics.

## <clear-binding-all>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;clear-binding-all/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Clear all bindings.

**<clear-binding-ip>**

---

**Usage**   <rpc>  
           **<clear-binding-ip>**  
           <ip-address>*ip-address*</ip-address>   <!-- mandatory -->  
           **</clear-binding-ip>**  
           </rpc>

**Description**   Clear binding entry based on IP address.

**Contents**    <ip-address>—Enter IP Address.

**<clear-binding-nai>**

---

**Usage**   <rpc>  
           **<clear-binding-nai>**  
           <nai>*nai*</nai>   <!-- mandatory -->  
           **</clear-binding-nai>**  
           </rpc>

**Description**   Clear binding entry based on nai.

**Contents**    <nai>—Enter nai.

**<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>  
         <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.
- <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-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>  
         <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.

    <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>  
         <logical-system>logical-system</logical-system>  
     **</clear-dhcp-relay-statistics-information>**  
 </rpc>

**Description** Clear DHCP statistics.

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

    <routing-instance>—Name of routing instance.

**<clear-dhcp-server-binding-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-dhcp-server-binding-information&gt;     &lt;address&gt;address&lt;/address&gt;     &lt;all/&gt;     &lt;routing-instance&gt;routing-instance&lt;/routing-instance&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/clear-dhcp-server-binding-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear DHCP client binding information.
<b>Contents</b>	<p>&lt;address&gt;—IP address or MAC address of DHCP client binding.</p> <p>&lt;all&gt;—Clear all bindings.</p> <p>&lt;logical-system&gt;—Name of logical system.</p> <p>&lt;routing-instance&gt;—Name of routing instance.</p>

**<clear-dhcp-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-dhcp-statistics-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear DHCP statistics.

**<clear-dot1x-interface-session>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-dot1x-interface-session&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;   &lt;/clear-dot1x-interface-session&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear 802.1X session on an interface.
<b>Contents</b>	<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-helper-statistics-information>**

---

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

**Description**   Clear helper statistics.

**<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-node-secret-file>**

---

**Usage**   <rpc>  
           <clear-node-secret-file/>  
         </rpc>

**Description**   Delete SecurID authentication node secret file.

**<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-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-pgcp-gates>**

---

- Usage**   <rpc>  
           **<clear-service-pgcp-gates>**  
           <gateway-name>*gateway-name*</gateway-name>   <!-- mandatory -->  
           **</clear-service-pgcp-gates>**  
           </rpc>
- Description**   Clear gates table.
- Contents**   <gateway-name>—Gateway name.

## **<clear-service-pgcp-statistics>**

---

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

**Description**   Clear statistics information.

**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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-services-dynamic-flow-capture-sequence-number&gt;     &lt;capture-group&gt;capture-group&lt;/capture-group&gt;    &lt;!-- mandatory --&gt;     &lt;source-identifier&gt;source-identifier&lt;/source-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/clear-services-dynamic-flow-capture-sequence-number&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear dynamic flow capture sequence-number.
<b>Contents</b>	<p>&lt;capture-group&gt;—Capture group name.</p> <p>&lt;source-identifier&gt;—Control source identifier.</p>

## <clear-services-flow-collector-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-services-flow-collector-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear services flow collector information.

## <clear-services-flow-collector-statistics>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-services-flow-collector-statistics&gt;     &lt;interface&gt;interface-choice&lt;/interface&gt;    &lt;!-- mandatory --&gt;   &lt;/clear-services-flow-collector-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear statistics.
<b>Contents</b>	<p>&lt;interface&gt;—Interface name.</p> <ul style="list-style-type: none"> <li>■ all—All configured Collector PICs.</li> <li>■ interface—Physical interface.</li> </ul>

## <clear-system-commit>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-system-commit/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear all pending commit requests.



**<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**   Clear 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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;clear-vpls-mac-table&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;vlan-id&gt;vlan-id-choice&lt;/vlan-id&gt;     &lt;address&gt;address&lt;/address&gt;   &lt;/clear-vpls-mac-table&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Clear all learned media access control addresses.
<b>Contents</b>	<p>&lt;address&gt;—MAC address.</p> <p>&lt;instance&gt;—Display information for a specified instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p> <p>&lt;vlan-id&gt;—Clear MAC address learned on a specified VLAN.</p> <ul style="list-style-type: none"> <li>■ all-vlan—Clear MAC addresses on all VLAN(s).</li> <li>■ vlan-id—Clear MAC address learned on a specified VLAN.</li> </ul>

**<file-compare>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-compare&gt;     &lt;context/&gt;     &lt;unified/&gt;     &lt;ignore-white-space/&gt;     &lt;from-file&gt;from-file&lt;/from-file&gt;     &lt;to-file&gt;to-file&lt;/to-file&gt;   &lt;/file-compare&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Compare files.
<b>Contents</b>	<p>&lt;context&gt;—Context style output format.</p> <p>&lt;from-file&gt;—File to compare.</p> <p>&lt;ignore-white-space&gt;—Ignore changes in amount of white space.</p> <p>&lt;to-file&gt;—File to compare against.</p> <p>&lt;unified&gt;—Unified style output format.</p>

**<file-copy>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-copy&gt;     &lt;source&gt;source&lt;/source&gt;    &lt;!-- mandatory --&gt;     &lt;destination&gt;destination&lt;/destination&gt;    &lt;!-- mandatory --&gt;   &lt;/file-copy&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Copy files (local or remote).
<b>Contents</b>	<p>&lt;destination&gt;—URL of destination file.</p> <p>&lt;source&gt;—URL of source file.</p>

**<file-delete>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-delete&gt;     &lt;purge/&gt;     &lt;path&gt;path&lt;/path&gt;    &lt;!-- mandatory --&gt;   &lt;/file-delete&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Delete files from the system.
<b>Contents</b>	<p>&lt;path&gt;—Path to delete.</p> <p>&lt;purge&gt;—Overwrite regular files before deleting them.</p>

**<file-get>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-get&gt;     &lt;filename&gt;filename&lt;/filename&gt;    &lt;!-- mandatory --&gt;     &lt;encoding&gt;encoding&lt;/encoding&gt;    &lt;!-- mandatory --&gt;   &lt;/file-get&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Get file from device with contents inlined.
<b>Contents</b>	<p>&lt;encoding&gt;—Encoding type, ascii or base64.</p> <p>&lt;filename&gt;—Name of source file on device.</p>

**<file-list>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-list&gt;     &lt;detail/&gt;     &lt;recursive/&gt;     &lt;path&gt;path&lt;/path&gt;   &lt;/file-list&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	List file information.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed output (like 'ls -l').</p> <p>&lt;path&gt;—Path to list.</p> <p>&lt;recursive&gt;—Descend recursively through directory hierarchy.</p>

**<file-put>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-put&gt;     &lt;filename&gt;filename&lt;/filename&gt;    &lt;!-- mandatory --&gt;     &lt;permission&gt;permission&lt;/permission&gt;     &lt;encoding&gt;encoding&lt;/encoding&gt;    &lt;!-- mandatory --&gt;     &lt;delete-if-exist/&gt;     &lt;file-contents&gt;file-contents&lt;/file-contents&gt;    &lt;!-- mandatory --&gt;   &lt;/file-put&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Put file onto device with contents inlined.
<b>Contents</b>	<p>&lt;delete-if-exist&gt;—Delete the destination file on device if it already exists.</p> <p>&lt;encoding&gt;—Encoding type, ascii or base64.</p> <p>&lt;file-contents&gt;—File content.</p> <p>&lt;filename&gt;—Name of destination file on device.</p> <p>&lt;permission&gt;—Name of destination file on device.</p>

**<file-rename>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-rename&gt;     &lt;source&gt;source&lt;/source&gt;    &lt;!-- mandatory --&gt;     &lt;destination&gt;destination&lt;/destination&gt;    &lt;!-- mandatory --&gt;   &lt;/file-rename&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Rename files.
<b>Contents</b>	<p>&lt;destination&gt;—Destination URL.</p> <p>&lt;source&gt;—Source URL.</p>

**<file-show>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;file-show&gt;     &lt;filename&gt;filename&lt;/filename&gt;    &lt;!-- mandatory --&gt;     &lt;encoding&gt;encoding-choice&lt;/encoding&gt;   &lt;/file-show&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show file contents.
<b>Contents</b>	<p>&lt;encoding&gt;—Encode file contents.</p> <ul style="list-style-type: none"> <li>■ base64—Encode file with base64 encoding.</li> </ul> <p>&lt;filename&gt;—Filename to show.</p>

**<get-aaa-module-statistics>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-aaa-module-statistics&gt;     &lt;authentication/&gt;     &lt;accounting/&gt;     &lt;dynamic-requests/&gt;   &lt;/get-aaa-module-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Authentication, authorization and accounting (AAA) module statistics.
<b>Contents</b>	<p>&lt;accounting&gt;—Accounting statistics.</p> <p>&lt;authentication&gt;—Authentication statistics.</p> <p>&lt;dynamic-requests&gt;—Dynamic requests statistics.</p>

## <get-aaa-subscriber-statistics>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-aaa-subscriber-statistics&gt;     &lt;username&gt;username&lt;/username&gt; &lt;!-- mandatory --&gt;   &lt;/get-aaa-subscriber-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Statistics on subscriber events.
<b>Contents</b>	<username>—Show statistics for this subscriber's session entry.

## <get-aaa-subscriber-table>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-aaa-subscriber-table&gt;     &lt;username&gt;username&lt;/username&gt;     &lt;routing-instance&gt;routing-instance&lt;/routing-instance&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/get-aaa-subscriber-table&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	List subscriber specific command options.
<b>Contents</b>	<p>&lt;logical-system&gt;—Name of logical system.</p> <p>&lt;routing-instance&gt;—Name of routing instance.</p> <p>&lt;username&gt;—Show details for this subscriber's session entry.</p>

## <get-accounting-profile-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-accounting-profile-information&gt;     &lt;profile&gt;profile&lt;/profile&gt;   &lt;/get-accounting-profile-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show accounting profile information.
<b>Contents</b>	<profile>—Profile name.

**<get-accounting-record-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-accounting-record-information&gt;     &lt;profile&gt;profile&lt;/profile&gt;    &lt;!-- mandatory --&gt;     &lt;since&gt;since&lt;/since&gt;     &lt;utc-timestamp/&gt;   &lt;/get-accounting-record-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show accounting records.
<b>Contents</b>	<p>&lt;profile&gt;—Name of profile.</p> <p>&lt;since&gt;—Timestamp on earliest records to show (YYYY-MM-DD.HH:MM:SS).</p> <p>&lt;utc-timestamp&gt;—Display timestamp in UTC format.</p>

**<get-active-servers>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-active-servers/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show configured servers.

**<get-address-assignment-pool-table>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-address-assignment-pool-table&gt;     &lt;get-address-assignment-pool-table-specific&gt;get-adrs-assgnmnt-pool-table-specific       &lt;/get-address-assignment-pool-table-specific&gt; &lt;!-- mandatory --&gt;     &lt;routing-instance&gt;routing-instance&lt;/routing-instance&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/get-address-assignment-pool-table&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show pool information.
<b>Contents</b>	<p>&lt;get-address-assignment-pool-table-specific&gt;—Show information for a specific pool.</p> <p>&lt;logical-system&gt;—Name of logical system.</p> <p>&lt;routing-instance&gt;—Name of routing instance.</p>

## <get-alarm-information>

---

**Usage**   <rpc>  
               <get-alarm-information/>  
               </rpc>

**Description**   Show alarm status.

## <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-auth-pending-tbl-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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-bgp-summary-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;   &lt;/get-bgp-summary-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show overview of BGP information.
<b>Contents</b>	<p>&lt;instance&gt;—Show peer information for a particular instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

## <get-bgp-traffic-statistics-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-bgp-traffic-statistics-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;group-name&gt;group-name&lt;/group-name&gt;   &lt;/get-bgp-traffic-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show packet statistics for labeled BGP routes.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;group-name&gt;—Show group information for a particular group.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-bridge-domain-alt-root-flood-route-information&gt;     &lt;interface&gt;interface&lt;/interface&gt;    &lt;!-- mandatory --&gt;   &lt;/get-bridge-domain-alt-root-flood-route-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show STP alt-root flooding route used for interface.
<b>Contents</b>	<interface>—Interface for which to show alternate-root flooding route.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-bridge-domain-bd-flood-route-information&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;bridge-domain&gt;bridge-domain&lt;/bridge-domain&gt;   &lt;/get-bridge-domain-bd-flood-route-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show route for flooding traffic of a bridge domain if no-local-switching is not enabled.
<b>Contents</b>	<p>&lt;bridge-domain&gt;—Display information for a specified bridge domain.</p> <p>&lt;instance&gt;—Display information for a specified instance.</p>

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-bridge-domain-event-queue-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show queue of pending bridge flood events.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-bridge-domain-mlp-flood-route-information&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;bridge-domain&gt;bridge-domain&lt;/bridge-domain&gt;   &lt;/get-bridge-domain-mlp-flood-route-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show route for flooding traffic to MAC learning chips.
<b>Contents</b>	<p>&lt;bridge-domain&gt;—Display information for a specified bridge domain.</p> <p>&lt;instance&gt;—Display information for a specified instance.</p>

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

---

- Usage** <rpc>  
     <get-bridge-domain-re-flood-route-information>  
         <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.

## <get-bridge-instance-information>

---

- Usage** <rpc>  
     <get-bridge-instance-information>  
         <instance>*instance*</instance>  
         <bridge-domain>*bridge-domain*</bridge-domain>  
         <interface>*interface*</interface>  
         <detail/>  
         <brief/>  
         <extensive/>  
     </get-bridge-instance-information>  
     </rpc>
- Description** Show bridge domain information.
- Contents** <bridge-domain>—Name of bridging domain, or 'all'.  
     <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.

**<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>  
         <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.

<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>**  
         <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.



**<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-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 -->  
           </get-checksum-information>  
           </rpc>

**Description**   Calculate MD5 checksum of a file.

**Contents**   <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>  
               <b>get-commit-information</b>  
               </rpc>

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

**<get-core-file-information>**

---

**Usage**   <rpc>  
               <b>get-core-file-information</b>  
               <detail/>  
               <brief/>  
               <core-filename>*core-filename*</core-filename>   <!-- mandatory -->  
               <b>/get-core-file-information</b>  
               </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>  
               <b>get-cos-adaptive-shaper-information</b>  
               <adaptive-shaper-name>*adptve-shaper-nm*</adaptive-shaper-name>  
               <b>/get-cos-adaptive-shaper-information</b>  
               </rpc>

**Description**   Show trigger types and associated rate for adaptive shaper.

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

## <get-cos-classifier-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-classifier-information&gt;     &lt;classifier-name&gt;classifier-name&lt;/classifier-name&gt;     &lt;type&gt;type-choice&lt;/type&gt;   &lt;/get-cos-classifier-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show mapping of code point to forwarding class/loss priority.
<b>Contents</b>	<p>&lt;classifier-name&gt;—Name of classifier.</p> <p>&lt;type&gt;—Type of classifier.</p> <ul style="list-style-type: none"> <li>■ dscp—Differentiated Services code point (DSCP).</li> <li>■ dscp-ipv6—Differentiated Services code point (DSCP) for IPv6.</li> <li>■ exp—MPLS experimental code point.</li> <li>■ ieee-802.1—IEEE-802.1 code point.</li> <li>■ ieee-802.1ad—IEEE-802.1ad (DEI) code point.</li> <li>■ inet-precedence—IPv4 precedence code point.</li> </ul>

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-classifier-table-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show classifier information.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-classifier-table-map-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	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/>  
           </rpc>

**Description**   Show mapping of forwarding class names to queue numbers.

**<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-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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-rewrite-information&gt;     &lt;rewrite-rule-name&gt;rewrite-rule-name&lt;/rewrite-rule-name&gt;     &lt;type&gt;type-choice&lt;/type&gt;   &lt;/get-cos-rewrite-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show mapping of forwarding class/loss priority to code point.
<b>Contents</b>	<p>&lt;rewrite-rule-name&gt;—Name of rewrite rule.</p> <p>&lt;type&gt;—Type of rewrite rule.</p> <ul style="list-style-type: none"> <li>■ dscp—Differentiated Services code point (DSCP).</li> <li>■ dscp-ipv6—Differentiated Services code point (DSCP) for IPv6.</li> <li>■ exp—MPLS experimental code point.</li> <li>■ frame-relay-de—Frame relay discard eligible bit code point.</li> <li>■ ieee-802.1—IEEE-802.1 code point.</li> <li>■ ieee-802.1ad—IEEE-802.1ad (DEI) code point.</li> <li>■ inet-precedence—IPv4 precedence code point.</li> </ul>

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-rewrite-table-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show rewrite information.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-rewrite-table-map-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-traffic-control-profile-information&gt;     &lt;traffic-control-profile-name&gt;traffic-control-profile-name   &lt;/traffic-control-profile-name&gt;   &lt;/get-cos-traffic-control-profile-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show traffic control profiles.
<b>Contents</b>	<traffic-control-profile-name>—Name of traffic control profile.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-translation-table-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show translation table information.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-cos-translation-table-map-information&gt;     &lt;translation-table-name&gt;translation-table-name&lt;/translation-table-name&gt;     &lt;type&gt;type-choice&lt;/type&gt;   &lt;/get-cos-translation-table-map-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show mapping of code point to code point.
<b>Contents</b>	<p>&lt;translation-table-name&gt;—Name of translation table.</p> <p>&lt;type&gt;—Type of translation table.</p> <ul style="list-style-type: none"> <li>■ to-dscp-from-dscp—DSCP to DSCP translation table.</li> <li>■ to-dscp-ipv6-from-dscp-ipv6—DSCP IPV6 to DSCP IPV6 translation table.</li> <li>■ to-exp-from-exp—EXP to EXP translation table.</li> <li>■ to-inet-precedence-from-inet-precedence—INET PRECEDENCE to INET PRECEDENCE translation table.</li> </ul>

## <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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-binding-information&gt;     &lt;detail/&gt;     &lt;address&gt;address&lt;/address&gt;   &lt;/get-dhcp-binding-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP client binding information.
<b>Contents</b>	<p>&lt;address&gt;—Address of DHCP client binding.</p> <p>&lt;detail&gt;—Display detailed information.</p>

## <get-dhcp-conflict-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-conflict-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP address conflict.

## <get-dhcp-global-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-global-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP global scope information.

## <get-dhcp-pool-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-pool-information&gt;     &lt;detail/&gt;     &lt;subnet-address&gt;subnet-address&lt;/subnet-address&gt;   &lt;/get-dhcp-pool-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP address pool information.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed information.</p> <p>&lt;subnet-address&gt;—Logical subnet of address pool.</p>

**<get-dhcp-relay-binding-information>**

---

- Usage** <rpc>  
     **<get-dhcp-relay-binding-information>**  
         <detail/>  
         <address>address</address>  
         <routing-instance>routing-instance</routing-instance>  
         <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.  
     <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>  
         <logical-system>logical-system</logical-system>  
     **</get-dhcp-relay-statistics-information>**  
 </rpc>
- Description** Show DHCP statistics.
- Contents** <logical-system>—Name of logical system.  
     <routing-instance>—Name of routing instance.

**<get-dhcp-server-binding-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-server-binding-information&gt;     &lt;detail/&gt;     &lt;address&gt;address&lt;/address&gt;     &lt;routing-instance&gt;routing-instance&lt;/routing-instance&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/get-dhcp-server-binding-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP server client binding information.
<b>Contents</b>	<p>&lt;address&gt;—IP address or MAC address of DHCP client binding.</p> <p>&lt;detail&gt;—Display detailed information.</p> <p>&lt;logical-system&gt;—Name of logical system.</p> <p>&lt;routing-instance&gt;—Name of routing instance.</p>

**<get-dhcp-server-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-server-statistics-information&gt;     &lt;routing-instance&gt;routing-instance&lt;/routing-instance&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/get-dhcp-server-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP server statistics.
<b>Contents</b>	<p>&lt;logical-system&gt;—Name of logical system.</p> <p>&lt;routing-instance&gt;—Name of routing instance.</p>

**<get-dhcp-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dhcp-statistics-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show DHCP statistics.



**<get-directory-usage-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-directory-usage-information&gt;     &lt;path&gt;path&lt;/path&gt;     &lt;depth&gt;depth&lt;/depth&gt;   &lt;/get-directory-usage-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show local directory information.
<b>Contents</b>	<p>&lt;depth&gt;—Depth of directories to traverse.</p> <p>&lt;path&gt;—Path of root directory to traverse.</p>

**<get-dot1x-authentication-failed-users>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dot1x-authentication-failed-users/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	List users who have failed 802.1X authentication.

**<get-dot1x-interface-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-dot1x-interface-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;   &lt;/get-dot1x-interface-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show 802.1X interface information.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;interface-name&gt;—Name of interface.</p>

**<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-addresses>**

---

**Usage**   <rpc>  
           <get-dot1x-static-mac-addresses/>  
         </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-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-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-es-is-interface-information>**

---

**Usage** <rpc>  
     **<get-es-is-interface-information>**  
         <logical-system>*logical-system*</logical-system>  
         <brief/>  
         <detail/>  
         <extensive/>  
         <instance>*instance*</instance>  
         <interface-name>*interface-name*</interface-name>  
     **</get-es-is-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-es-is-statistics-information>**

---

**Usage** <rpc>  
     **<get-es-is-statistics-information>**  
         <logical-system>*logical-system*</logical-system>  
         <instance>*instance*</instance>  
     **</get-es-is-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-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.

&lt;end-time&gt;—End time filter. Format is mm/dd/yyyy hour:min.

&lt;event-description&gt;—Regular expression for description filter .

&lt;event-id&gt;—Event Id filter.

&lt;new-search&gt;—It is a new search.

&lt;output-file-name&gt;—File name where filtered messages are stored.

&lt;show-end-event&gt;—Requested event ending number.

&lt;show-start-event&gt;—Requested event starting number.

&lt;start-time&gt;—Start time filter. Format is mm/dd/yyyy hour:min.

&lt;syslogfile&gt;—Syslog file name filter.

&lt;total-message-display&gt;—Number of messages displayed per page.

**<get-fabric-queue-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-fabric-queue-information&gt;     &lt;destination&gt;destination&lt;/destination&gt;     &lt;source&gt;source&lt;/source&gt;     &lt;summary/&gt;   &lt;/get-fabric-queue-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show fabric queue statistics.
<b>Contents</b>	<p>&lt;destination&gt;—Destination FPC for which to show details.</p> <p>&lt;source&gt;—Source FPC for which to show details.</p> <p>&lt;summary&gt;—Display summary output.</p>

**<get-feb-brief-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-feb-brief-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show Forwarding Engine Board status.

**<get-feb-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-feb-information&gt;     &lt;feb_slot&gt;feb_slot&lt;/feb_slot&gt;   &lt;/get-feb-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show detailed output.
<b>Contents</b>	<feb_slot>—FEB slot number.

**<get-feb-redundancy-error-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-feb-redundancy-error-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	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>  
     **</get-firewall-information>**  
 </rpc>

**Description** Show firewall information.

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

**<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/>**  
          </rpc>

**Description**   Show state of fabric management plane.

## **<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>  
     **</get-forwarding-table-information>**  
 </rpc>

**Description** Show entries in all forwarding tables.

**Contents** <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.

---

## <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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ggsn-imsi-trace&gt;     &lt;imsi-identifier&gt;<i>imsi-identifier</i>&lt;/imsi-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/get-ggsn-imsi-trace&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show trace information for Identifier for International Mobile Subscriber Identity.
<b>Contents</b>	<imsi-identifier>—Identifier for IMSI.

**<get-ggsn-imsi-user-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ggsn-imsi-user-information&gt;     &lt;imsi-identifier&gt;<i>imsi-identifier</i>&lt;/imsi-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/get-ggsn-imsi-user-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show International Mobile Subscriber Identity statistics.
<b>Contents</b>	<imsi-identifier>—Identifier for IMSI.

**<get-ggsn-interface-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ggsn-interface-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show GGSN operational status information.

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

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ggsn-l2tp-tunnel-statistics-information&gt;     &lt;lac-address&gt;<i>lac-address</i>&lt;/lac-address&gt;   &lt;/get-ggsn-l2tp-tunnel-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show L2TP tunnel statistics.
<b>Contents</b>	<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>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-header-redirect-set-statistics-information&gt;     &lt;detail/&gt;   &lt;/get-header-redirect-set-statistics-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show header redirect set statistics.
<b>Contents</b>	<detail>—Display detailed statistics.

## <get-health-monitor-alarm-information>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-health-monitor-alarm-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;   &lt;/get-health-monitor-alarm-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show health-monitor alarms.
<b>Contents</b>	<brief>—Display brief output (default).  <detail>—Display detailed output.

## <get-health-monitor-information>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-health-monitor-information/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show health-monitoring information.

## <get-health-monitor-log-information>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-health-monitor-log-information/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	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-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-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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-igmp-snooping-membership-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;group&gt;group&lt;/group&gt;     &lt;interface&gt;interface&lt;/interface&gt;     &lt;vlan-id&gt;vlan-id&lt;/vlan-id&gt;     &lt;instance&gt;instance&lt;/instance&gt;   &lt;/get-igmp-snooping-membership-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IGMP snooping group membership.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;group&gt;—IP address range for group.</p> <p>&lt;instance&gt;—Name of routing-instance.</p> <p>&lt;interface&gt;—Name of interface.</p> <p>&lt;vlan-id&gt;—VLAN ID for a learning domain.</p>

## <get-igmp-snooping-statistics-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-igmp-snooping-statistics-information&gt;     &lt;interface&gt;interface&lt;/interface&gt;     &lt;vlan-id&gt;vlan-id&lt;/vlan-id&gt;     &lt;instance&gt;instance&lt;/instance&gt;   &lt;/get-igmp-snooping-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IGMP snooping statistics.
<b>Contents</b>	<p>&lt;instance&gt;—Name of routing-instance.</p> <p>&lt;interface&gt;—Name of interface.</p> <p>&lt;vlan-id&gt;—VLAN ID for a learning domain.</p>

**<get-igmp-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-igmp-statistics-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-igmp-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IGMP statistics.
<b>Contents</b>	<p>&lt;interface&gt;—Name of interface.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-ike-security-associations-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ike-security-associations-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;peer-address&gt;peer-address&lt;/peer-address&gt;   &lt;/get-ike-security-associations-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IKE security association information.
<b>Contents</b>	<p>&lt;brief&gt;—Show brief output (default).</p> <p>&lt;detail&gt;—Show detailed output.</p> <p>&lt;peer-address&gt;—Name of security association.</p>

**<get-ike-services-security-associations-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ike-services-security-associations-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;peer-address&gt;peer-address&lt;/peer-address&gt;   &lt;/get-ike-services-security-associations-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show services IKE security association information.
<b>Contents</b>	<p>&lt;brief&gt;—Show brief output (default).</p> <p>&lt;detail&gt;—Show detailed output.</p> <p>&lt;peer-address&gt;—Name of security association.</p>



**<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 -->  
     </get-ip-mip-binding-information>  
 </rpc>
- Description** Show binding detail based on IP address.
- Contents** <ip-address>—Show binding detail based on IP address.

## <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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-isis-authentication-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;   &lt;/get-isis-authentication-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IS-IS authentication information.
<b>Contents</b>	<p>&lt;instance&gt;—Name of IS-IS instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-isis-database-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-isis-database-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;extensive/&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;level&gt;level&lt;/level&gt;     &lt;system-id&gt;system-id&lt;/system-id&gt;   &lt;/get-isis-database-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IS-IS link-state database.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;instance&gt;—Name of IS-IS instance.</p> <p>&lt;level&gt;—Number of IS-IS level.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p> <p>&lt;system-id&gt;—System ID of IS.</p>



**<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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-isis-overview-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;   &lt;/get-isis-overview-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show overview of IS-IS information.
<b>Contents</b>	<p>&lt;instance&gt;—Name of IS-IS instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-isis-route-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-isis-route-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;destination&gt;destination&lt;/destination&gt;     &lt;inet/&gt;     &lt;inet6/&gt;     &lt;iso/&gt;     &lt;topology&gt;topology-choice&lt;/topology&gt;   &lt;/get-isis-route-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IS-IS routing table.
<b>Contents</b>	<p>&lt;destination&gt;—IP address and optional prefix length of destination.</p> <p>&lt;inet&gt;—Display IPv4 routes.</p> <p>&lt;inet6&gt;—Display IPv6 routes.</p> <p>&lt;instance&gt;—Name of IS-IS instance.</p> <p>&lt;iso&gt;—Display CLNS routes.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p> <p>&lt;topology&gt;—Name of topology from which routes were learned.</p> <ul style="list-style-type: none"> <li>■ ipv4-multicast—IPv4 multicast topology.</li> <li>■ ipv6-multicast—IPv6 multicast topology.</li> <li>■ ipv6-unicast—IPv6 unicast topology.</li> <li>■ unicast—Unicast topology.</li> </ul>

**<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>**

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-l2tp-summary-information&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-l2tp-summary-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show L2TP summary information.
<b>Contents</b>	<interface>—Name of adaptive services interface.

**<get-l2tp-tunnel-information>**

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-l2tp-tunnel-information&gt;     &lt;extensive/&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;statistics/&gt;     &lt;tunnel-group&gt;tunnel-group&lt;/tunnel-group&gt;     &lt;local-tunnel-id&gt;local-tunnel-id&lt;/local-tunnel-id&gt;     &lt;interface&gt;interface&lt;/interface&gt;     &lt;local-gateway&gt;local-gateway&lt;/local-gateway&gt;     &lt;local-gateway-name&gt;local-gateway-name&lt;/local-gateway-name&gt;     &lt;peer-gateway&gt;peer-gateway&lt;/peer-gateway&gt;     &lt;peer-gateway-name&gt;peer-gateway-name&lt;/peer-gateway-name&gt;   &lt;/get-l2tp-tunnel-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show active L2TP tunnel list.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;interface&gt;—Interface name to use as filter.</p> <p>&lt;local-gateway&gt;—Local gateway address to use as filter.</p> <p>&lt;local-gateway-name&gt;—Local gateway name to use as filter.</p> <p>&lt;local-tunnel-id&gt;—Local tunnel ID to use as filter.</p> <p>&lt;peer-gateway&gt;—Peer gateway address to use as filter.</p> <p>&lt;peer-gateway-name&gt;—Peer gateway name to use as filter.</p> <p>&lt;statistics&gt;—Display statistics.</p> <p>&lt;tunnel-group&gt;—Tunnel group to use as filter.</p>

**<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>  
           <b>get-lacp-interface-information</b>  
           <interface-name>*interface-name*</interface-name>  
           <b>/get-lacp-interface-information</b>  
           </rpc>

**Description**   Show LACP interfaces information.

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

**<get-ldp-database-information>**

---

**Usage**   <rpc>  
           <b>get-ldp-database-information</b>  
           <logical-system>*logical-system*</logical-system>  
           <brief/>  
           <detail/>  
           <extensive/>  
           <instance>*instance*</instance>  
           <session>*session*</session>  
           <inet/>  
           <l2circuit/>  
           <b>/get-ldp-database-information</b>  
           </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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ldp-fec-filters-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;fec&gt;fec&lt;/fec&gt;   &lt;/get-ldp-fec-filters-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show filters for forwarding equivalence classes.
<b>Contents</b>	<p>&lt;fec&gt;—Forwarding equivalence class.</p> <p>&lt;instance&gt;—Name of LDP routing instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-ldp-interface-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ldp-interface-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;extensive/&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;   &lt;/get-ldp-interface-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show LDP interface status.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;instance&gt;—Name of LDP routing instance.</p> <p>&lt;interface-name&gt;—Name of interface.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<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-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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-lm-te-link-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;link-name&gt;link-name&lt;/link-name&gt;   &lt;/get-lm-te-link-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show traffic engineering links information.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;link-name&gt;—Name of traffic engineering link.</p>

**<get-mac-database>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-mac-database&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;    &lt;!-- mandatory --&gt;     &lt;mac-address&gt;mac-address&lt;/mac-address&gt;   &lt;/get-mac-database&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show media access control database information.
<b>Contents</b>	<p>&lt;interface-name&gt;—Name of physical or logical interface.</p> <p>&lt;mac-address&gt;—MAC address.</p>

**<get-mip-binding-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-mip-binding-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show binding information.

## <get-mip-ha-interface-information>

---

- Usage**   <rpc>  
          <get-mip-ha-interface-information>  
          <interface-name>*interface-name*</interface-name>  
          </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.

## <get-mip-ha-overview-information>

---

- Usage**   <rpc>  
          <get-mip-ha-overview-information/>  
          </rpc>
- Description**   Show overview.

## <get-mip-ha-traffic-information>

---

- Usage**   <rpc>  
          <get-mip-ha-traffic-information/>  
          </rpc>
- Description**   Show traffic information.

## <get-mip-ha-virtual-network-information>

---

- Usage**   <rpc>  
          <get-mip-ha-virtual-network-information/>  
          </rpc>
- Description**   Show virtual network related information.

**<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-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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-mspinfo-packages&gt;     &lt;detail/&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-mspinfo-packages&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show packages loaded on the extension provider PIC.
<b>Contents</b>	<p>&lt;detail&gt;—No documentation is available yet.</p> <p>&lt;interface&gt;—Name of extension provider interface.</p>

## <get-mspinfo-processes>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-mspinfo-processes&gt;     &lt;detail/&gt;     &lt;wide/&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-mspinfo-processes&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show system process table on the extension provider PIC.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;interface&gt;—Name of extension provider interface.</p> <p>&lt;wide&gt;—Display information even if wider than 80 columns.</p>

## <get-mspinfo-processes-brief>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-mspinfo-processes-brief&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-mspinfo-processes-brief&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Display brief output.
<b>Contents</b>	<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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-multicast-backup-pe-groups-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;   &lt;/get-multicast-backup-pe-groups-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show backup PE groups.
<b>Contents</b>	<p>&lt;instance&gt;—Name of instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-multicast-flow-maps-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-multicast-flow-maps-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;   &lt;/get-multicast-flow-maps-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show configured flow maps.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-multicast-interface-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-multicast-interface-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/get-multicast-interface-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show configured interfaces.
<b>Contents</b>	<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-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>  
         <regex>*regex*</regex>  
     **</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'.

<regex>—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 -->  
           **</get-nai-mip-binding-information>**  
         </rpc>

**Description**   Show binding detail based on nai.

**Contents**   <network-access-identifier>—Show binding detail based on nai.

**<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*</advertising-router>  
         <instance>*instance*</instance>  
     **</get-ospf-database-information>**  
 </rpc>

**Description** Show OSPF link-state database.

**Contents** <advertising-router>—Router ID of advertising 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/>  
 <opaque-area/>  
 <area>*area*</area>  
 <lsa-id>*lsa-id*</lsa-id>  
 <advertising-router>*advertising-router*</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.

<area>—Area ID of OSPFv3 area.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<external>—Display information about external LSAs.

<instance>—Name of OSPFv3 instance.

<inter-area-prefix>—Display information about inter-area-prefix LSAs.

<inter-area-router>—Display information about inter-area-router LSAs.

<intra-area-prefix>—Display information about intra-area-prefix LSAs.

<link>—Display information about link LSAs.

<link-local>—Display information about link-local LSAs.

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

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

<network>—Display information about network LSAs.

<nssa>—Display information about NSSA LSAs.

<opaque-area>—Display information about opaque area-scope LSAs.

<realm>—Name of realm.

- ipv4-multicast—IPv4 multicast realm.

- ipv4-unicast—IPv4 unicast realm.

- ipv6-multicast—IPv6 multicast realm.

<router>—Show information about router LSAs.

<summary>—Display summary output.

**<get-ospf3-interface-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ospf3-interface-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;extensive/&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;area&gt;area&lt;/area&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;realm&gt;realm-choice&lt;/realm&gt;   &lt;/get-ospf3-interface-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show OSPFv3 interface status.
<b>Contents</b>	<p>&lt;area&gt;—OSPF area ID.</p> <p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;instance&gt;—Name of OSPFv3 instance.</p> <p>&lt;interface-name&gt;—Name of logical interface.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p> <p>&lt;realm&gt;—Name of realm.</p> <ul style="list-style-type: none"> <li>■ ipv4-multicast—IPv4 multicast realm.</li> <li>■ ipv4-unicast—IPv4 unicast realm.</li> <li>■ ipv6-multicast—IPv6 multicast realm.</li> </ul>

**<get-ospf3-io-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ospf3-io-statistics-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;   &lt;/get-ospf3-io-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show OSPFv3 I/O statistics.
<b>Contents</b>	<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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ospf3-statistics-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;realm&gt;realm-choice&lt;/realm&gt;   &lt;/get-ospf3-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show OSPFv3 statistics.
<b>Contents</b>	<p>&lt;instance&gt;—Name of OSPFv3 instance.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p> <p>&lt;realm&gt;—Name of realm.</p> <ul style="list-style-type: none"> <li>■ ipv4-multicast—IPv4 multicast realm.</li> <li>■ ipv4-unicast—IPv4 unicast realm.</li> <li>■ ipv6-multicast—IPv6 multicast realm.</li> </ul>

**<get-package-backup-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-package-backup-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show status of old system software packages.

**<get-packet-distribution-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-packet-distribution-information&gt;     &lt;packet-size-distribution-information&gt;packet-size-distribution-information     &lt;/packet-size-distribution-information&gt;   &lt;/get-packet-distribution-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show packet size distribution.
<b>Contents</b>	<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>  
         <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.

**<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-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>**

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-ppp-statistics-information&gt;     &lt;detail/&gt;     &lt;memory/&gt;   &lt;/get-ppp-statistics-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show PPP statistics.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed statistics.</p> <p>&lt;memory&gt;—Display PPP process memory statistics.</p>

**<get-ppp-summary-information>**

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-ppp-summary-information/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show PPP summary information.

**<get-pppoe-interface-information>**

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-pppoe-interface-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;extensive/&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;   &lt;/get-pppoe-interface-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show interface information.
<b>Contents</b>	<p>&lt;brief&gt;—Show brief output.</p> <p>&lt;detail&gt;—Show detailed output.</p> <p>&lt;extensive&gt;—Show extensive output.</p> <p>&lt;interface-name&gt;—Name of PPPoE logical interface.</p>

**<get-pppoe-statistics-information>**

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-pppoe-statistics-information/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rip-statistics-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;neighbor-name&gt;neighbor-name&lt;/neighbor-name&gt;     &lt;instance&gt;instance-choice&lt;/instance&gt;   &lt;/get-rip-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show RIP statistics.
<b>Contents</b>	<p>&lt;instance&gt;—Name of RIP instance.</p> <ul style="list-style-type: none"> <li>■ all—Show all instances.</li> <li>■ instance-name—Name of RIP instance.</li> </ul> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p> <p>&lt;neighbor-name&gt;—Name of RIP neighbor.</p>

## <get-rmon-alarm-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rmon-alarm-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;   &lt;/get-rmon-alarm-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show RMON alarms.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p>

## <get-rmon-event-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rmon-event-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;   &lt;/get-rmon-event-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show RMON events.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p>

**<get-rmon-history-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rmon-history-information&gt;     &lt;index&gt;index&lt;/index&gt;     &lt;sample-index&gt;sample-index&lt;/sample-index&gt;   &lt;/get-rmon-history-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show RMON history.
<b>Contents</b>	<p>&lt;index&gt;—No documentation is available yet.</p> <p>&lt;sample-index&gt;—No documentation is available yet.</p>

**<get-rmon-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rmon-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show remote monitoring information.

**<get-rmon-log-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rmon-log-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show rmon monitoring logs.

## <get-rollback-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-rollback-information&gt;     &lt;rollback&gt;rollback&lt;/rollback&gt;    &lt;!-- mandatory --&gt;     &lt;compare&gt;compare&lt;/compare&gt;     &lt;format&gt;format-choice&lt;/format&gt;   &lt;/get-rollback-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show rolled back configuration.
<b>Contents</b>	<p>&lt;compare&gt;—Rollback number to compare.</p> <p>&lt;format&gt;—Output format of configuration (XML or text).</p> <ul style="list-style-type: none"> <li>■ text—Output text configuration.</li> <li>■ xml—Output XML configuration.</li> </ul> <p>&lt;rollback&gt;—Rollback number to display.</p>

## <get-route-engine-information>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-route-engine-information&gt;     &lt;slot&gt;slot&lt;/slot&gt;   &lt;/get-route-engine-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show Routing Engine status.
<b>Contents</b>	<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/>  
 <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.
- <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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-sap-listen-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;   &lt;/get-sap-listen-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show addresses to listen for session announcements.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-scb-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-scb-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show System Control Board status.

**<get-security-associations-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-security-associations-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;sa-name&gt;sa-name&lt;/sa-name&gt;   &lt;/get-security-associations-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IPSec security association information.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output.</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;sa-name&gt;—Name of security association.</p>



**<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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-accounting-aggregation-template-information&gt;     &lt;template-name&gt;template-name&lt;/template-name&gt; &lt;!-- mandatory --&gt;     &lt;extensive/&gt;     &lt;detail/&gt;     &lt;terse/&gt;   &lt;/get-service-accounting-aggregation-template-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show aggregation type template.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;template-name&gt;—Name of template.</p> <p>&lt;terse&gt;—Display terse output (default).</p>

**<get-service-accounting-errors-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-accounting-errors-information&gt;     &lt;error-information&gt;error-information&lt;/error-information&gt;   &lt;/get-service-accounting-errors-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show error statistics.
<b>Contents</b>	<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-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-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-conversation-information>**

**Usage** <rpc>  
**<get-service-pgcp-conversation-information>**  
 <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/>  
**</get-service-pgcp-conversation-information>**  
 </rpc>

**Description** Show PGCP conversations.

**Contents** <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.

<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>**  
 <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/>  
**</get-service-pgcp-flow-table-information>**  
 </rpc>

**Description** Show PGCP flow table entries.

**Contents** <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.

<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-gates>`**

**Usage** `<rpc>`  
     **`<get-service-pgcp-gates/>`**  
     `</rpc>`

**Description** Show list of gates.

---

### **`<get-service-pgcp-gates-gate-id>`**

**Usage** `<rpc>`  
     **`<get-service-pgcp-gates-gate-id>`**  
     `<gate-id>gate-id</gate-id>`   `<!-- mandatory -->`  
     `<extensive/>`  
     `<brief/>`  
     `<statistics/>`  
     `<session-mirroring/>`  
     **`</get-service-pgcp-gates-gate-id>`**  
     `</rpc>`

**Description** Show specific gate.

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

`<extensive>`—Display extensive output.

`<gate-id>`—Gate id.

`<session-mirroring>`—Display session mirroring for gate.

`<statistics>`—Display statistics for gate.

**<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>  
           **</get-service-pgcp-gates-gateway>**  
       </rpc>

**Description**   Show all gates for gateway.

**Contents**   <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.  
               <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>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-pgcp-statistics-gateway&gt;     &lt;gateway-name&gt;gateway-name&lt;/gateway-name&gt;    &lt;!-- mandatory --&gt;     &lt;brief/&gt;     &lt;extensive/&gt;   &lt;/get-service-pgcp-statistics-gateway&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show gateway statistics.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;gateway-name&gt;—Gateway name.</p>

## <get-service-pgcp-terminations>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-pgcp-terminations&gt;     &lt;gateway-name&gt;gateway-name&lt;/gateway-name&gt;    &lt;!-- mandatory --&gt;     &lt;termination-prefix&gt;termination-prefix&lt;/termination-prefix&gt;     &lt;h248/&gt;     &lt;brief/&gt;     &lt;count/&gt;   &lt;/get-service-pgcp-terminations&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show list of terminations.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;count&gt;—Show count of matching entries.</p> <p>&lt;gateway-name&gt;—Gateway name.</p> <p>&lt;h248&gt;—Display H248 output format.</p> <p>&lt;termination-prefix&gt;—Termination-prefix to use as filter, default * (all).</p>

**<get-service-set-cpu-statistics>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-set-cpu-statistics&gt;     &lt;service-set&gt;service-set&lt;/service-set&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-service-set-cpu-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show service interface CPU utilization as a percentage.
<b>Contents</b>	<p>&lt;interface&gt;—Name of adaptive services interface.</p> <p>&lt;service-set&gt;—Name of service set.</p>

**<get-service-set-memory-statistics>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-set-memory-statistics&gt;     &lt;service-set&gt;service-set&lt;/service-set&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-service-set-memory-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show service interface memory utilization.
<b>Contents</b>	<p>&lt;interface&gt;—Name of adaptive services interface.</p> <p>&lt;service-set&gt;—Name of service set.</p>

**<get-service-set-packet-drop-statistics>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-service-set-packet-drop-statistics&gt;     &lt;interface&gt;interface&lt;/interface&gt;   &lt;/get-service-set-packet-drop-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show service set packet drop statistics.
<b>Contents</b>	<interface>—Name of adaptive services 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-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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-flow-collector-information&gt;     &lt;extensive/&gt;     &lt;detail/&gt;     &lt;terse/&gt;     &lt;interface&gt;interface-choice&lt;/interface&gt;    &lt;!-- mandatory --&gt;   &lt;/get-services-flow-collector-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show flow collector service information.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;interface&gt;—Interface name.</p> <ul style="list-style-type: none"> <li>■ all—All configured Collector PICs.</li> <li>■ interface—Physical interface.</li> </ul> <p>&lt;terse&gt;—Display terse output (default).</p>

**<get-services-flow-collector-input-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-flow-collector-input-information&gt;     &lt;interface&gt;interface-choice&lt;/interface&gt;    &lt;!-- mandatory --&gt;     &lt;extensive/&gt;     &lt;detail/&gt;     &lt;terse/&gt;   &lt;/get-services-flow-collector-input-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show input status information.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;interface&gt;—Interface name.</p> <ul style="list-style-type: none"> <li>■ all—All configured Collector PICs.</li> <li>■ interface—Physical interface.</li> </ul> <p>&lt;terse&gt;—Display terse output (default).</p>

**<get-services-ipsec-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-ipsec-statistics-information&gt;     &lt;remote-gw&gt;remote-gw&lt;/remote-gw&gt;     &lt;detail/&gt;     &lt;brief/&gt;     &lt;service-set&gt;service-set&lt;/service-set&gt;   &lt;/get-services-ipsec-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IPSec statistics.
<b>Contents</b>	<p>&lt;brief&gt;—Display accumulated statistics (default).</p> <p>&lt;detail&gt;—Display all tunnels.</p> <p>&lt;remote-gw&gt;—Peer address to use as filter.</p> <p>&lt;service-set&gt;—Name of service set.</p>

**<get-services-l2tp-radius-accounting-servers-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-l2tp-radius-accounting-servers-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show RADIUS accounting servers information.

**<get-services-l2tp-radius-accounting-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-l2tp-radius-accounting-statistics-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show RADIUS accounting statistics information.

**<get-services-l2tp-radius-authentication-accounting-servers-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-l2tp-radius-authentication-accounting-servers-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	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>  
           <gateway-name>gateway-name</gateway-name>   <!-- mandatory -->  
           </get-services-pgcpd-root-termination>  
           </rpc>

**Description**   Show root termination h248 information.

**Contents**   <gateway-name>—Gateway name.

**<get-services-security-associations-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-services-security-associations-information&gt;     &lt;brief/&gt;     &lt;detail/&gt;     &lt;extensive/&gt;     &lt;service-set&gt;service-set&lt;/service-set&gt;   &lt;/get-services-security-associations-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show IPSec security association information.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;extensive&gt;—Display extensive output.</p> <p>&lt;service-set&gt;—Restrict output to one service set.</p>

**<get-sfm-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-sfm-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show Switching and Forwarding Module status.

**<get-show-bridge-domain-all-ce-flood-route-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-show-bridge-domain-all-ce-flood-route-information&gt;     &lt;instance&gt;instance&lt;/instance&gt;     &lt;bridge-domain&gt;bridge-domain&lt;/bridge-domain&gt;   &lt;/get-show-bridge-domain-all-ce-flood-route-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show route for flooding traffic to all CE routers if no-local-switching is enabled.
<b>Contents</b>	<p>&lt;bridge-domain&gt;—Display information for a specified bridge domain.</p> <p>&lt;instance&gt;—Display information for a specified instance.</p>

**<get-show-bridge-domain-ve-flood-route-information>**

---

- Usage** `<rpc>`  
     **<get-show-bridge-domain-ve-flood-route-information>**  
         `<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.

**<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.
  - `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>  
           <snmp-object-name>*snmp-object-name*</snmp-object-name>   <!-- mandatory -->  
           </get-snmp-object>  
           </rpc>

**Description**   Get SNMP object value.

**Contents**   <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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-source-class-statistics&gt;     &lt;class-name&gt;class-name&lt;/class-name&gt;    &lt;!-- mandatory --&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;   &lt;/get-source-class-statistics&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show statistics for source class.
<b>Contents</b>	<p>&lt;class-name&gt;—Name of source class.</p> <p>&lt;interface-name&gt;—Name of logical interface.</p>

**<get-spmb-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-spmb-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show Switch Processor Mezzanine Board status.

**<get-spmb-sib-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-spmb-sib-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show Switch Interface Board status.

**<get-ssb-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ssb-information&gt;     &lt;slot&gt;slot&lt;/slot&gt;   &lt;/get-ssb-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show System and Switch Board status.
<b>Contents</b>	<slot>—SSB slot number.

## <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>  
         <terse/>  
         <detail/>  
         <count/>  
     </get-subscribers>  
 </rpc>

**Description** Show subscriber information.

**Contents** <address>—IPv4 or IPv6 address of subscriber.

<count>—Display number of active 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.

<terse>—Display terse output.

## <get-summary-mip-binding-information>

---

**Usage** <rpc>  
     <get-summary-mip-binding-information/>  
 </rpc>

**Description** Show summary of binding table.

## <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>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-syslog-tag-information&gt;     &lt;syslog-tag&gt;syslog-tag&lt;/syslog-tag&gt;   &lt;/get-syslog-tag-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	System log error messages.
<b>Contents</b>	<syslog-tag>—System log tag or regular expression.

## <get-system-alarm-information>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-system-alarm-information/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show system alarm status.

## <get-system-archival>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-system-archival/&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	List files queued up for archive transfer.

## <get-system-firmware-information>

---

<b>Usage</b>	<pre>&lt;rpc&gt;   &lt;get-system-firmware-information&gt;     &lt;compatibility/&gt;   &lt;/get-system-firmware-information&gt; &lt;/rpc&gt;</pre>
<b>Description</b>	Show all firmware version information.
<b>Contents</b>	<compatibility>—Show all firmware compatibility information.

**<get-system-resource-cleanup-processes-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-system-resource-cleanup-processes-information&gt;     &lt;detail/&gt;     &lt;process-name&gt;process-name&lt;/process-name&gt;     &lt;pid&gt;pid&lt;/pid&gt;   &lt;/get-system-resource-cleanup-processes-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show process resource cleanup information.
<b>Contents</b>	<p>&lt;detail&gt;—Display detailed information.</p> <p>&lt;pid&gt;—Process identifier.</p> <p>&lt;process-name&gt;—Process name.</p>

**<get-system-storage>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-system-storage&gt;     &lt;detail/&gt;   &lt;/get-system-storage&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show local storage data.
<b>Contents</b>	<detail>—No documentation is available yet.

**<get-system-uptime-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-system-uptime-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show time since system and processes started.

**<get-system-users-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-system-users-information&gt;     &lt;no-resolve/&gt;   &lt;/get-system-users-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show users who are currently logged in.
<b>Contents</b>	<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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-ted-protocol-information&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;brief/&gt;     &lt;detail/&gt;   &lt;/get-ted-protocol-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show current contributing protocols.
<b>Contents</b>	<p>&lt;brief&gt;—Display brief output (default).</p> <p>&lt;detail&gt;—Display detailed output.</p> <p>&lt;logical-system&gt;—Name of logical system, or 'all'.</p>

**<get-temperature-threshold-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-temperature-threshold-information/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show chassis temperature threshold settings.

**<get-uri-redirect-set-statistics-information>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;get-uri-redirect-set-statistics-information&gt;     &lt;detail/&gt;   &lt;/get-uri-redirect-set-statistics-information&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Show URI redirect set statistics.
<b>Contents</b>	<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'.

**<next-snmp-object>**

---

**Usage** `<rpc>`  
     **<next-snmp-object>**  
         `<snmp-object-name>snmp-object-name</snmp-object-name>`   `<!-- mandatory -->`  
     **</next-snmp-object>**  
`</rpc>`

**Description** Get next SNMP object value.

**Contents** `<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-event-scripts>

**Usage**   <rpc>  
          <reload-event-scripts/>  
          </rpc>

**Description**   Reload all existing event-scripts.

---

## <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>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-start-imsi-trace&gt;     &lt;imsi-identifier&gt;<i>imsi-identifier</i>&lt;/imsi-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/request-ggsn-start-imsi-trace&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Start tracing International Mobile Subscriber Identity.
<b>Contents</b>	<imsi-identifier>—Identifier for IMSI.

**<request-ggsn-start-msisdn-trace>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-start-msisdn-trace&gt;     &lt;msisdn-identifier&gt;<i>msisdn-identifier</i>&lt;/msisdn-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/request-ggsn-start-msisdn-trace&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Start tracing Mobile Station Integrated Services Digital Network.
<b>Contents</b>	<msisdn-identifier>—Identifier for MSISDN.

**<request-ggsn-stop-imsi-trace>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-stop-imsi-trace&gt;     &lt;imsi-identifier&gt;<i>imsi-identifier</i>&lt;/imsi-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/request-ggsn-stop-imsi-trace&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Stop tracing International Mobile Subscriber Identity.
<b>Contents</b>	<imsi-identifier>—Identifier for IMSI.

**<request-ggsn-stop-interface>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-stop-interface&gt;     &lt;interface-name&gt;<i>interface-name</i>&lt;/interface-name&gt;    &lt;!-- mandatory --&gt;   &lt;/request-ggsn-stop-interface&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Stop GGSN service interface.
<b>Contents</b>	<interface-name>—Name of GGSN service interface.



**<request-ggsn-stop-msisdn-trace>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-stop-msisdn-trace&gt;     &lt;msisdn-identifier&gt;<i>msisdn-identifier</i>&lt;/msisdn-identifier&gt;    &lt;!-- mandatory --&gt;   &lt;/request-ggsn-stop-msisdn-trace&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Stop tracing Mobile Station Integrated Services Digital Network.
<b>Contents</b>	<msisdn-identifier>—Identifier for MSISDN.

**<request-ggsn-stop-node>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-stop-node/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Stop GGSN node activity.

**<request-ggsn-stop-trace-activity>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-stop-trace-activity/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Stop all tracing.

**<request-ggsn-terminate-context>**

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-ggsn-terminate-context&gt;     &lt;imsi&gt;<i>imsi</i>&lt;/imsi&gt;    &lt;!-- mandatory --&gt;     &lt;nsapi&gt;<i>nsapi</i>&lt;/nsapi&gt;   &lt;/request-ggsn-terminate-context&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Terminate specified kind of PDP context.
<b>Contents</b>	<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-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-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/>  
             <scs/>  
             <lcc>*lcc*</lcc>  
             <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.

                <scs>—Install package on SCC.

                <unlink>—Remove the package after successful installation.

                <validate>—Check compatibility with current configuration.

## <request-package-delete>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-package-delete&gt;     &lt;force/&gt;     &lt;package-name&gt;package-name&lt;/package-name&gt;    &lt;!-- mandatory --&gt;   &lt;/request-package-delete&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Remove extension or upgrade package.
<b>Contents</b>	<p>&lt;force&gt;—Force removal of package (ignore warnings).</p> <p>&lt;package-name&gt;—Name of package.</p>

## <request-package-delete-backup>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-package-delete-backup/&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	Delete old system software packages.

## <request-package-in-service-upgrade>

---

<b>Usage</b>	<pre> &lt;rpc&gt;   &lt;request-package-in-service-upgrade&gt;     &lt;reboot/&gt;     &lt;package-name&gt;package-name&lt;/package-name&gt;    &lt;!-- mandatory --&gt;     &lt;no-old-master-upgrade/&gt;     &lt;no-copy/&gt;     &lt;no-validate/&gt;     &lt;unlink/&gt;   &lt;/request-package-in-service-upgrade&gt; &lt;/rpc&gt; </pre>
<b>Description</b>	In-service software upgrade.
<b>Contents</b>	<p>&lt;no-copy&gt;—Don't save copies of package files.</p> <p>&lt;no-old-master-upgrade&gt;—Don't upgrade the old master after switchover.</p> <p>&lt;no-validate&gt;—Don't check compatibility with current configuration.</p> <p>&lt;package-name&gt;—URL or pathname of package.</p> <p>&lt;reboot&gt;—Reboot system after adding package.</p> <p>&lt;unlink&gt;—Remove the package after successful installation.</p>

**<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 -->  
               <sc</sc>  
               <lcc>*lcc*</lcc>  
               <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.

              <sc>—Validate package on SCC.

**<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 -->  
           <sccl/>  
           <lcc>*lcc*</lcc>  
           <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.
- <sccl>—Install package on SCC.
- <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.
- `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.

**<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>**  
           <snmp-object-name>*snmp-object-name*</snmp-object-name>   <!-- mandatory -->  
           **</walk-snmp-object>**  
           </rpc>

**Description**   Walk SNMP object values.

**Contents**   <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 296
- Summary of Accounting Response Tags on page 297
- Summary of Adaptive Services Response Tags on page 321
- Summary of Alarm Response Tags on page 431
- Summary of APS Response Tags on page 434
- Summary of ARP Response Tags on page 437
- Summary of Authentication Response Tags on page 440
- Summary of Autoinstallation Response Tags on page 455
- Summary of BFD Response Tags on page 457
- Summary of Connectivity Fault Management Response Tags on page 464
- Summary of Chassis Response Tags on page 494
- Summary of Class-of-Service Response Tags on page 557
- “Summary of Database Replication Response Tags” on page 605
- Summary of Data Link Switching Response Tags on page 607
- Summary of DHCP Response Tags on page 619
- Summary of DHCP Relay Response Tags on page 629
- Summary of DHCP Server Response Tags on page 635

- Summary of Dialer Response Tags on page 641
- “Summary of Diameter Response Tags” on page 648
- Summary of Dynamic Configuration Response Tags on page 657
- Summary of Dynamic Flow Capture Response Tags on page 664
- Summary of Firewall Filter Response Tags on page 672
- Summary of Graceful Switchover Response Tags on page 675
- Summary of Interface Metadata Response Tags on page 678
- Summary of Interface Response Tags on page 680
- Summary of IPSec Response Tags on page 848
- Summary of IPv6 Neighbor Discovery Response Tags on page 884
- Summary of ISDN Response Tags on page 886
- Summary of J20 GGSN Response Tags on page 895
- Summary of Layer 2 Address Learning Response Tags on page 949
- Summary of Layer 2 Control Protocol Response Tags on page 973
- Summary of LACP Response Tags on page 946
- Summary of License Response Tags on page 1001
- Summary of Licensed Feature Metadata Response Tags on page 1008
- Summary of Link-Fault Management Response Tags on page 1010
- Summary of MIP Response Tags on page 1023
- Summary of MPLS OAM Response Tags on page 1039
- Summary of Passive Monitoring Interfaces Response Tags on page 1046
- Summary of PGM Response Tags on page 1053
- Summary of Periodic Packet Management Response Tags on page 1061
- Summary of Periodic Packet Management Response Tags on page 1061
- Summary of PPP Response Tags on page 1066
- Summary of PPP over Ethernet Response Tags on page 1077
- Summary of Probe-Test Response Tags on page 1083
- Summary of Product Metadata Response Tags on page 1095

- Summary of Redundant Interfaces Response Tags on page 1098
- “Summary of Resource Cleanup Response Tags” on page 1099
- Summary of Routing and Forwarding Table Response Tags on page 1102
- Summary of Routing Protocols Response Tags on page 1108
- Summary of RPM Response Tags on page 1489
- Summary of SDX Response Tags on page 1506
- Summary of Services Accounting Response Tags on page 1508
- Summary of Services Flow Collector Response Tags on page 1522
- Summary of Shutdown Response Tags on page 1530
- Summary of SNMP Response Tags on page 1531
- “Summary of Subscribers Response Tags” on page 1560
- Summary of UDP Forwarding Helper Response Tags on page 1563
- Summary of Telephony Gateway Module Response Tags on page 1557
- Summary of UDP Forwarding Helper Response Tags on page 1563
- Summary of System Process Response Tags on page 1565
- Summary of Virtual Router Redundancy Protocol Response Tags on page 1579
- Summary of X.509 Certificate Response Tags on page 1591

For information about the notation used in this chapter, see Table 2 on page lxvii. To review the document type definitions (DTDs) for these tags, see “JUNOS XML Document Type Definitions” on page 1599.

## <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/9.3R1/junos-accounting>. To review the DTD for the tags, see “DTD for Accounting Response Tags” on page 1603.

### <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>—Packets 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-pkts-recd-with-seq-num*  
             </cfm-packets-received-with-sequence-number>  
         <cfm-packets-received-invalid-length>*cfm-packets-recd-invalid-len*  
             </cfm-packets-received-invalid-length>  
         <cfm-packets-transmitted>*cfm-pkts-transm*</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-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>  
     **</pfe-local-protocol-statistics>**  
 </pfe-statistics>

**Description** No documentation is available yet.

**Contents** <atm-oam-count>—ATM OAM packet count.

<bfd-count>—BFD packets.

<fr-lmi-count>—Frame Relay LMI packet count.

<hdlc-keepalive-count>—HDLC keepalive packet count.

<isis-iih-count>—IS-IS IIH packets.

<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.

**<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-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-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-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-traffic-statistics>—No documentation is available yet.

**<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-yyyyymmdd>*date-yyyyymmdd*</date-yyyyymmdd>  
         <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-yyyyymmdd>—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

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This section lists JUNOS XML tags that contain operational information about adaptive services interfaces. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-adaptive-services>. To review the DTD for the tags, see “DTD for Adaptive Services Response Tags” on page 1611.

**<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-iioip-errors>alg-iioip-errors</alg-iioip-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-iioip-errors>—ALG IIOIP 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>

```
<normal-mg-execution-time>normal-mg-execution-time</normal-mg-execution-time>
  <mg-provisional-response-timer-value>mg-provisional-response-timer-value
    </mg-provisional-response-timer-value>
  <mg-originated-pending-limit>mg-originated-pending-limit
    </mg-originated-pending-limit>
  <normal-mgc-execution-time>normal-mgc-execution-time
    </normal-mgc-execution-time>
  <mgc-provisional-response-timer-value>mgc-provisional-response-timer-value
    </mgc-provisional-response-timer-value>
  <mgc-originated-pending-limit>mgc-originated-pending-limit
    </mgc-originated-pending-limit>
</base-root-entry>
```

</pgcpd-active-configuration | gateway-entry>

**Description** No documentation is available yet.

**Contents** <mg-originated-pending-limit>—No documentation is available yet.

<mg-provisional-response-timer-value>—No documentation is available yet.

<mgc-originated-pending-limit>—No documentation is available yet.

<mgc-provisional-response-timer-value>—No documentation is available yet.

<normal-mg-execution-time>—No documentation is available yet.

<normal-mgc-execution-time>—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>**

<b>Usage</b>	<pre> &lt;cos-stats-service-set-forwarding-class-information&gt;   &lt;cos-stats-service-set-forwarding-class-entry&gt;     &lt;received-forwarding-class&gt;received-forwarding-class     &lt;/received-forwarding-class&gt;     &lt;total-received-forwarding-class-packets&gt;total-received-forwarding-class-packets     &lt;/total-received-forwarding-class-packets&gt;     &lt;total-assigned-forwarding-class-packets&gt;total-assigned-forwarding-class-packets     &lt;/total-assigned-forwarding-class-packets&gt;   &lt;/cos-stats-service-set-forwarding-class-entry&gt; &lt;/cos-stats-service-set-forwarding-class-information&gt; </pre>
<b>Description</b>	Class-of-service service set statistics entry.
<b>Contents</b>	<p>&lt;received-forwarding-class&gt;—Received forwarding class.</p> <p>&lt;total-assigned-forwarding-class-packets&gt;—Total packets assigned per forwarding class.</p> <p>&lt;total-received-forwarding-class-packets&gt;—Total packets received per forwarding class.</p>

**<cos-stats-service-set-forwarding-class-information>**

<b>Usage</b>	<pre> &lt;service-cos-statistics-entry&gt;   &lt;cos-stats-service-set-forwarding-class-information&gt;     &lt;cos-stats-service-set-forwarding-class-entry&gt;...   &lt;/cos-stats-service-set-forwarding-class-entry&gt;   &lt;/cos-stats-service-set-forwarding-class-information&gt; &lt;/service-cos-statistics-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;service-crtp-flow-table&gt;   &lt;crtp-flow-entry&gt;     &lt;crtp-flow-context-id&gt;crtp-flow-context-id&lt;/crtp-flow-context-id&gt;     &lt;crtp-flow-rtp-id&gt;crtp-flow-rtp-id&lt;/crtp-flow-rtp-id&gt;     &lt;crtp-flow-source-info&gt;crtp-flow-source-info&lt;/crtp-flow-source-info&gt;     &lt;crtp-flow-destination-info&gt;crtp-flow-destination-info       &lt;/crtp-flow-destination-info&gt;     &lt;crtp-flow-type&gt;crtp-flow-type&lt;/crtp-flow-type&gt;   &lt;/crtp-flow-entry&gt; &lt;/service-crtp-flow-table&gt; </pre>
<b>Description</b>	C RTP flow information.
<b>Contents</b>	<p>&lt;crtp-flow-context-id&gt;—Context identifier.</p> <p>&lt;crtp-flow-destination-info&gt;—Flow destination information (IP address and UDP port).</p> <p>&lt;crtp-flow-rtp-id&gt;—RTP SSRC identifier.</p> <p>&lt;crtp-flow-source-info&gt;—Flow source information (IP address and UDP port).</p> <p>&lt;crtp-flow-type&gt;—Flow type.</p>

**<crtp-per-interface-flow-table>**

<b>Usage</b>	<pre> &lt;service-crtp-flow-table-information&gt;   &lt;crtp-per-interface-flow-table&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;service-crtp-flow-table&gt;...&lt;/service-crtp-flow-table&gt;   &lt;/crtp-per-interface-flow-table&gt; &lt;/service-crtp-flow-table-information&gt; </pre>
<b>Description</b>	C RTP flows sorted by interface.
<b>Contents</b>	<p>&lt;interface-name&gt;—Name of the adaptive services interface.</p> <p>&lt;service-crtp-flow-table&gt;—C RTP flows.</p>

**<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>**

<b>Usage</b>	<pre> &lt;h248-options-entry&gt;   &lt;encoding&gt;     &lt;no-dscp-bit-mirroring&gt;<i>no-dscp-bit-mirroring</i>&lt;/no-dscp-bit-mirroring&gt;   &lt;/encoding&gt; &lt;/h248-options-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<no-dscp-bit-mirroring>—No documentation is available yet.

**<error-counters>**

<b>Usage</b>	<pre> &lt;sfw-stats-service-set-entry&gt;   &lt;error-counters&gt;     &lt;ip-errors&gt;<i>ip-errors</i>&lt;/ip-errors&gt;     &lt;tcp-errors&gt;<i>tcp-errors</i>&lt;/tcp-errors&gt;     &lt;udp-errors&gt;<i>udp-errors</i>&lt;/udp-errors&gt;     &lt;icmp-errors&gt;<i>icmp-errors</i>&lt;/icmp-errors&gt;     &lt;non-ip-packets&gt;<i>non-ip-packets</i>&lt;/non-ip-packets&gt;     &lt;alg-errors&gt;<i>alg-errors</i>&lt;/alg-errors&gt;   &lt;/error-counters&gt; &lt;/sfw-stats-service-set-entry&gt; </pre>
<b>Description</b>	Summarized protocol processing errors.
<b>Contents</b>	<p>&lt;alg-errors&gt;—ALG processing errors.</p> <p>&lt;icmp-errors&gt;—ICMP processing errors.</p> <p>&lt;ip-errors&gt;—IP processing errors.</p> <p>&lt;non-ip-packets&gt;—Non-IP packets.</p> <p>&lt;tcp-errors&gt;—TCP processing errors.</p> <p>&lt;udp-errors&gt;—UDP processing errors.</p>

**<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 statistics.

**<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 statistics.

**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>
  <service-state>service-state</service-state>
  <active-controller>active-controller</active-controller>
  <replication-socket>replication-socket</replication-socket>
  <cleanup-timeout>cleanup-timeout</cleanup-timeout>
  <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>—No documentation is available yet.
- <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>—No documentation is available yet.

<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.

<overload-control-entry>—No documentation is available yet.

<replication-socket>—No documentation is available yet.

<service-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>**  
 <mg-segmentation-timer>*mg-segmentation-timer*</mg-segmentation-timer>  
 <mg-maximum-pdu-size>*mg-maximum-pdu-size*</mg-maximum-pdu-size>  
 <mgc-segmentation-timer>*mgc-segmentation-timer*</mgc-segmentation-timer>  
 <mgc-maximum-pdu-size>*mgc-maximum-pdu-size*</mgc-maximum-pdu-size>  
**</h248-segmentation-properties-entry>**  
 </pgcpd-active-configuration | gateway-entry>

**Description** No documentation is available yet.

**Contents** <mg-maximum-pdu-size>—No documentation is available yet.  
 <mg-segmentation-timer>—No documentation is available yet.  
 <mgc-maximum-pdu-size>—No documentation is available yet.  
 <mgc-segmentation-timer>—No documentation is available yet.

**<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*</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>—Default maximum inactivity timeout.



**<ip-error-counters>**

<b>Usage</b>	<pre> &lt;sfw-stats-service-set-entry&gt;   &lt;ip-error-counters&gt;     &lt;ip-length-error&gt;ip-length-error&lt;/ip-length-error&gt;     &lt;ip-header-length-error&gt;ip-header-length-error&lt;/ip-header-length-error&gt;     &lt;long-packet&gt;long-packet&lt;/long-packet&gt;     &lt;illegal-source-address&gt;illegal-source-address&lt;/illegal-source-address&gt;     &lt;illegal-destination-address&gt;illegal-destination-address       &lt;/illegal-destination-address&gt;     &lt;ttl-zero&gt;ttl-zero&lt;/ttl-zero&gt;     &lt;illegal-ip-protocol&gt;illegal-ip-protocol&lt;/illegal-ip-protocol&gt;     &lt;land-attack&gt;land-attack&lt;/land-attack&gt;     &lt;non-ipv4&gt;non-ipv4&lt;/non-ipv4&gt;     &lt;bad-checksum&gt;bad-checksum&lt;/bad-checksum&gt;     &lt;illegal-fragment-length&gt;illegal-fragment-length&lt;/illegal-fragment-length&gt;     &lt;fragment-overlap&gt;fragment-overlap&lt;/fragment-overlap&gt;     &lt;fragment-reassembly-timeout&gt;fragment-reassembly-timeout       &lt;/fragment-reassembly-timeout&gt;     &lt;unknown&gt;unknown&lt;/unknown&gt;   &lt;/ip-error-counters&gt; &lt;/sfw-stats-service-set-entry&gt; </pre>
<b>Description</b>	Extensive output of IP processing errors.
<b>Contents</b>	<p>&lt;bad-checksum&gt;—Bad checksum.</p> <p>&lt;fragment-overlap&gt;—IP fragment overlap.</p> <p>&lt;fragment-reassembly-timeout&gt;—IP fragment reassembly timeout.</p> <p>&lt;illegal-destination-address&gt;—Illegal destination address.</p> <p>&lt;illegal-fragment-length&gt;—Illegal IP fragment length.</p> <p>&lt;illegal-ip-protocol&gt;—Illegal IP protocol number (0 or 255).</p> <p>&lt;illegal-source-address&gt;—Illegal source address.</p> <p>&lt;ip-header-length-error&gt;—Minimum IP header length check failures.</p> <p>&lt;ip-length-error&gt;—IP packet length inconsistencies.</p> <p>&lt;land-attack&gt;—IP source address same as destination address.</p> <p>&lt;long-packet&gt;—Reassembled packet exceeds maximum IP length (65,535 bytes).</p> <p>&lt;non-ipv4&gt;—Non-IPv4 packets.</p> <p>&lt;ttl-zero&gt;—IP packets received with a TTL value of 0.</p> <p>&lt;unknown&gt;—Unknown errors.</p>

**<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-rem-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>**

<b>Usage</b>	<l2tp-per-tunnel-group-tunnel-table> <b>&lt;l2tp-tunnel-table&gt;</b> <l2tp-tunnel-entry>...</l2tp-tunnel-entry> <b>&lt;/l2tp-tunnel-table&gt;</b> </l2tp-per-tunnel-group-tunnel-table>
<b>Description</b>	L2TP tunnel table sorted by tunnel group.
<b>Contents</b>	<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.

**<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>**

<b>Usage</b>	<pre> &lt;sfw-stats-service-set-entry&gt;   &lt;new-flow-counters&gt;     &lt;new-flow-accepts&gt;new-flow-accepts&lt;/new-flow-accepts&gt;     &lt;new-flow-discards&gt;new-flow-discards&lt;/new-flow-discards&gt;     &lt;new-flow-rejects&gt;new-flow-rejects&lt;/new-flow-rejects&gt;   &lt;/new-flow-counters&gt; &lt;/sfw-stats-service-set-entry&gt; </pre>
<b>Description</b>	New flow counters.
<b>Contents</b>	<p>&lt;new-flow-accepts&gt;—Packets accepted by new flows.</p> <p>&lt;new-flow-discards&gt;—Packets discarded by new flows.</p> <p>&lt;new-flow-rejects&gt;—Packets rejected by new flows.</p>

**<overload-control-entry>**

<b>Usage</b>	<pre> &lt;pgcpd-active-configuration   gateway-entry&gt;   &lt;overload-control-entry&gt;     &lt;queue-limit-percentage&gt;queue-limit-percentage&lt;/queue-limit-percentage&gt;   &lt;/overload-control-entry&gt; &lt;/pgcpd-active-configuration   gateway-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<queue-limit-percentage>—No documentation is available yet.

**<parser-counters>**

<b>Usage</b>	<pre> &lt;sip-alg-counters&gt;   &lt;parser-counters&gt;     &lt;syntax-errors&gt;syntax-errors&lt;/syntax-errors&gt;     &lt;content-errors&gt;content-errors&lt;/content-errors&gt;     &lt;unknown-methods&gt;unknown-methods&lt;/unknown-methods&gt;   &lt;/parser-counters&gt; &lt;/sip-alg-counters&gt; </pre>
<b>Description</b>	Parser statistics.
<b>Contents</b>	<p>&lt;content-errors&gt;—SIP message content errors.</p> <p>&lt;syntax-errors&gt;—SIP syntax errors.</p> <p>&lt;unknown-methods&gt;—SIP unknown methods.</p>

**<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>—No documentation is available yet.  
 <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>—No documentation is available yet.  
 <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-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>*rad-stat-strt-reqs*  
 </radius-statistic-start-requests>  
 <radius-statistic-interim-requests>*rad-stat-interim-reqs*  
 </radius-statistic-interim-requests>  
 <radius-statistic-stop-requests>*radius-statistic-stop-requests*  
 </radius-statistic-stop-requests>  
 <radius-statistic-rollover-requests>*radius-statistic-rollover-reqs*  
 </radius-statistic-rollover-requests>  
 <radius-statistic-retransmissions>*rad-stat-retransmsns*  
 </radius-statistic-retransmissions>  
 <radius-statistic-responses>*radius-statistic-responses*  
 </radius-statistic-responses>  
 <radius-statistic-start-responses>*rad-stat-start-resp*  
 </radius-statistic-start-responses>  
 <radius-statistic-interim-responses>*radius-stat-interim-resps*  
 </radius-statistic-interim-responses>  
 <radius-statistic-stop-responses>*radius-statistic-stop-resps*  
 </radius-statistic-stop-responses>  
 <radius-statistic-malformed-responses>*radius-stat-malformed-resps*  
 </radius-statistic-malformed-responses>  
 <radius-statistic-bad-authenticators>*radius-statistic-bad-authrs*  
 </radius-statistic-bad-authenticators>  
 <radius-statistic-requests-pending>*radius-statistic-reqs-pending*  
 </radius-statistic-requests-pending>  
 <radius-statistic-request-timeouts>*radius-statistic-reqs-timeouts*  
 </radius-statistic-request-timeouts>  
 <radius-statistic-unknown-responses>*radius-statistic-unknown-resps*  
 </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-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-addr*</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-srvr-tmout*</radius-server-timeout>  
 <radius-server-pending-requests>*radius-server-pending-requests*  
 </radius-server-pending-requests>  
 <radius-server-maximum-sessions>*radius-srvr-max-sessions*  
 </radius-server-maximum-sessions>  
 <radius-server-dead-time>*radius-srvr-dead-time*</radius-server-dead-time>  
 <radius-server-secret-type>*radius-srvr-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-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-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 access 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 attempts.  
 <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 access 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 attempts.

<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 access 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.

**<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-crtf-flow-table>**

**Usage** <crtf-per-interface-flow-table>  
     **<service-crtf-flow-table>**  
         <crtf-flow-entry>...</crtf-flow-entry>  
     **</service-crtf-flow-table>**  
 </crtf-per-interface-flow-table>

**Description** CRTF flows.

**Contents** <crtf-flow-entry>—CRTF flow information.

**<service-crtf-flow-table-information>**

**Usage** <rpc-reply>  
    **<service-crtf-flow-table-information>**  
        <crtf-per-interface-flow-table>...</crtf-per-interface-flow-table>  
    **</service-crtf-flow-table-information>**  
</rpc-reply>

**Description** CRTF flows sorted by interface name.

**Contents** <crtf-per-interface-flow-table>—CRTF 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>hdr-exam-pkts
    </header-examination-packets>
  <header-examination-bytes>hdr-exam-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>hdr-exm-prtcl-reqd
    </header-examination-protocol-required>
  <header-examination-http-protocol-required>hdr-exam-http-protocol-reqd
    </header-examination-http-protocol-required>
  <header-examination-wap-protocol-required>hdr-exam-wap-protocol-req
    </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>prtl-inspn-bytes
    </protocol-inspection-bytes>
  <protocol-inspection-flow-protocol-identified>pr-in-fl-pr-id
    </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>wp-tr-cr</wap-transaction-created>
  <wap-transaction-maximum>wap-transtn-max
    </wap-transaction-maximum>
  <wap-transaction-freed>wap-transn-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>hdr-examn-failed-config
  </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-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-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-information*  
             </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-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-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-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-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-extensive>**

**Usage** <service-pgcp-statistics-gateway>  
     **<service-pgcp-stat-h248-extensive>**  
         <ex-command-flavor>ex-command-flavor</ex-command-flavor>  
         <ex-commands-sent>ex-commands-sent</ex-commands-sent>  
         <ex-commands-sent-wc>ex-commands-sent-wc</ex-commands-sent-wc>  
         <ex-response-received>ex-response-received</ex-response-received>  
         <ex-response-received-err>ex-response-received-err</ex-response-received-err>  
     **</service-pgcp-stat-h248-extensive>**  
 </service-pgcp-statistics-gateway>

**Description** No documentation is available yet.

**Contents** <ex-command-flavor>—H.248 command requests.

<ex-commands-sent>—Number of H.248 commands sent.

<ex-commands-sent-wc>—Number of H.248 wildcards commands sent.

<ex-response-received>—Number of H.248 received command responses.

<ex-response-received-err>—Number of H.248 received error command responses.

**<service-pgcp-stat-h248-extensive-header>**

**Usage** <service-pgcp-statistics-gateway>  
     **<service-pgcp-stat-h248-extensive-header>**  
         <ex-header-name>ex-header-name</ex-header-name>  
     **</service-pgcp-stat-h248-extensive-header>**  
 </service-pgcp-statistics-gateway>

**Description** No documentation is available yet.

**Contents** <ex-header-name>—Extensive statistics header.

**<service-pgcp-stat-h248-per-command-rq>**

**Usage** <service-pgcp-statistics-gateway>  
     **<service-pgcp-stat-h248-per-command-rq>**  
         <command-name>*command-name*</command-name>  
         <commands-sent>*commands-sent*</commands-sent>  
         <commands-sent-wc>*commands-sent-wc*</commands-sent-wc>  
         <commands-received>*commands-received*</commands-received>  
         <commands-received-wc>*commands-received-wc*  
             </commands-received-wc>  
     **</service-pgcp-stat-h248-per-command-rq>**  
 </service-pgcp-statistics-gateway>

**Description** No documentation is available yet.

**Contents** <command-name>—H.248 command requests.

<commands-received>—Number of H.248 commands received.

<commands-received-wc>—Number of H.248 wildcards commands received.

<commands-sent>—Number of H.248 commands sent.

<commands-sent-wc>—Number of H.248 wildcards commands sent.

**<service-pgcp-stat-h248-per-command-rsp>**

**Usage** <service-pgcp-statistics-gateway>  
     **<service-pgcp-stat-h248-per-command-rsp>**  
         <response-name>*response-name*</response-name>  
         <response-received>*response-received*</response-received>  
         <response-received-err>*response-received-err*</response-received-err>  
         <response-sent>*response-sent*</response-sent>  
         <response-sent-err>*response-sent-err*</response-sent-err>  
     **</service-pgcp-stat-h248-per-command-rsp>**  
 </service-pgcp-statistics-gateway>

**Description** No documentation is available yet.

**Contents** <response-name>—H.248 command response.

<response-received>—Number of H.248 received command responses.

<response-received-err>—Number of H.248 received error command responses.

<response-sent>—Number of H.248 commands response sent.

<response-sent-err>—Number of H.248 error response sent.

**<service-pgcp-statistics-gateway>**

**Usage** <rpc-reply>  
     **<service-pgcp-statistics-gateway>**  
         <gateway-entry>...</gateway-entry>  
         <service-pgcp-statistics-h248>...</service-pgcp-statistics-h248>  
         <service-pgcp-stat-h248-per-command-rq>...  
             </service-pgcp-stat-h248-per-command-rq>  
         <service-pgcp-stat-h248-per-command-rsp>...  
             </service-pgcp-stat-h248-per-command-rsp>  
         <service-pgcp-stat-h248-extensive-header>...  
             </service-pgcp-stat-h248-extensive-header>  
         <service-pgcp-stat-h248-extensive>...</service-pgcp-stat-h248-extensive>  
     **</service-pgcp-statistics-gateway>**  
 </rpc-reply>

**Description** No documentation is available yet.

**Contents** <gateway-entry>—No documentation is available yet.

<service-pgcp-stat-h248-extensive>—No documentation is available yet.

<service-pgcp-stat-h248-extensive-header>—No documentation is available yet.

<service-pgcp-stat-h248-per-command-rq>—No documentation is available yet.

<service-pgcp-stat-h248-per-command-rsp>—No documentation is available yet.

<service-pgcp-statistics-h248>—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 octet sent.

<protocol-errors>—Number of H.248 protocol errors.

<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-service-type-entry>**

<b>Usage</b>	<pre> &lt;service-set-summary-information-entry&gt;   &lt;service-set-service-type-entry&gt;     &lt;service-type&gt;service-type&lt;/service-type&gt;     &lt;service-sets-configured&gt;srvc-sets-configured       &lt;/service-sets-configured&gt;     &lt;service-set-bytes-used&gt;srvc-set-bytes-used&lt;/service-set-bytes-used&gt;     &lt;service-set-percent-bytes-used&gt;service-set-percent-bytes-used       &lt;/service-set-percent-bytes-used&gt;     &lt;service-set-cpu-utilization&gt;srvc-set-cpu-util       &lt;/service-set-cpu-utilization&gt;     &lt;service-set-policy-bytes-used&gt;servc-set-polcy-bytes-used       &lt;/service-set-policy-bytes-used&gt;     &lt;service-set-percent-policy-bytes-used&gt;srvc-set-percnt-polcy-bytes-used       &lt;/service-set-percent-policy-bytes-used&gt;   &lt;/service-set-service-type-entry&gt; &lt;/service-set-summary-information-entry&gt; </pre>
<b>Description</b>	Service set service type entry.
<b>Contents</b>	<pre> &lt;service-set-bytes-used&gt;—Memory used (bytes).  &lt;service-set-cpu-utilization&gt;—CPU utilization (percent).  &lt;service-set-percent-bytes-used&gt;—Memory used (percent).  &lt;service-set-percent-policy-bytes-used&gt;—Policy memory used (percent).  &lt;service-set-policy-bytes-used&gt;—Policy memory used (bytes).  &lt;service-sets-configured&gt;—Number of service sets configured.  &lt;service-type&gt;—Service type. </pre>

**<service-set-summary-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;service-set-summary-information&gt;     &lt;service-set-summary-information-entry&gt;...       &lt;/service-set-summary-information-entry&gt;   &lt;/service-set-summary-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Service set summary information.
<b>Contents</b>	<pre> &lt;service-set-summary-information-entry&gt;—Service set summary information entry. </pre>

**<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-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-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.

**<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

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This section lists JUNOS XML tags that contain operational information about alarms. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-alarm>. To review the DTD for the tags, see “DTD for Alarm Response Tags” on page 1647.

### <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 APS Response Tags

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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/9.3R1/junos-aps>. To review the DTD for the tags, see “DTD for APS Response Tags” on page 1649.

### <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-receive-k1>aps-receive-k1</aps-receive-k1>
  <aps-transmit-k1>aps-transmit-k1</aps-transmit-k1>
  <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-neighbor-revert-time>aps-neighbor-revert-time
    </aps-neighbor-revert-time>
  <aps-remaining-revert-time>aps-remaining-revert-time
    </aps-remaining-revert-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-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-pair-group-name>—Paired group name.
- <aps-pair-interface-name>—Paired interface name.
- <aps-receive-k1>—Receive K1 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-request-k1>—Request K1 value.

<aps-revert-time>—APS revert time.

<aps-time-remaining>—Remaining time.

<aps-transmit-k1>—Transmit K1 value.

### **<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/9.3R1/junos-arp>. To review the DTD for the tags, see “DTD for ARP Response Tags” on page 1651.

### <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/9.3R1/junos-auth>. To review the DTD for the tags, see “DTD for Authentication Response Tags” on page 1653.

### <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 timedout.

### <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 timedout.

**<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 timedout.



**<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>acc-int-res</acctng-interim-responses>  
 <accounting-stop-on-failure-sent-successfully>acc-stp-on-failr-sent-successfly  
 </accounting-stop-on-failure-sent-successfully>  
 <accounting-stop-on-failure-send-failed>acctng-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>*au-ch-re*</authentication-challenge-requests>  
 <authentication-challenge-responses>*authentication-challenge-responses*  
 </authentication-challenge-responses>  
 <accounting-start-sent-successfully>*a-s-s-s*  
 </accounting-start-sent-successfully>  
 <accounting-start-send-failed>*ac-st-se-fa*  
 </accounting-start-send-failed>  
 <accounting-start-responses>*ac-st-resp*  
 </accounting-start-responses>  
 <accounting-interim-sent-successfully>*accounting-interim-sent-successfully*  
 </accounting-interim-sent-successfully>  
 <accounting-interim-send-failed>*ac-int-sn-fail*  
 </accounting-interim-send-failed>  
 <accounting-interim-responses>*ac-int-res*  
 </accounting-interim-responses>  
 <accounting-stop-on-failure-sent-successfully>*a-s-o-f-s-s*  
 </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>  
     **</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.  
 <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

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This section lists JUNOS XML tags that contain operational information about autoinstallation on J-series platforms. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-autoinstallation>. To review the DTD for the tags, see “DTD for Autoinstallation Response Tags” on page 1657.

### <autoinstallation-status-information>

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;autoinstallation-status-information&gt;     &lt;master-state&gt;master-state&lt;/master-state&gt;     &lt;last-configuration-filename&gt;last-configuration-filename       &lt;/last-configuration-filename&gt;     &lt;last-configuration-server&gt;last-configuration-server       &lt;/last-configuration-server&gt;     &lt;autoinstallation-status-interface-information&gt;...       &lt;/autoinstallation-status-interface-information&gt;   &lt;/autoinstallation-status-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Autoinstallation status.
<b>Contents</b>	<p>&lt;autoinstallation-status-interface-information&gt;—Autoinstallation status for a particular interface.</p> <p>&lt;last-configuration-filename&gt;—Name of last configuration file committed.</p> <p>&lt;last-configuration-server&gt;—IP address of last configuration server.</p> <p>&lt;master-state&gt;—State of master state machine.</p>

### <autoinstallation-status-interface-address-information>

<b>Usage</b>	<pre> &lt;autoinstallation-status-interface-information&gt;   &lt;autoinstallation-status-interface-address-information&gt;     &lt;protocol-name&gt;protocol-name&lt;/protocol-name&gt;     &lt;protocol-address&gt;protocol-address&lt;/protocol-address&gt;   &lt;/autoinstallation-status-interface-address-information&gt; &lt;/autoinstallation-status-interface-information&gt; </pre>
<b>Description</b>	Autoinstallation status for address acquisition protocols on a particular interface.
<b>Contents</b>	<p>&lt;protocol-address&gt;—Address acquired on this interface using this address acquisition protocol.</p> <p>&lt;protocol-name&gt;—Address acquisition protocol on this interface.</p>

**<autoinstallation-status-interface-information>**

**Usage** <autoinstallation-status-information>  
     **<autoinstallation-status-interface-information>**  
         <interface-name>*int-name*</interface-name>  
         <interface-state>*int-state*</interface-state>  
         <interface-acquired-address>*int-acq-add*  
             </interface-acquired-address>  
         <interface-acquired-hostname>*int-acq-hostn*  
             </interface-acquired-hostname>  
         <interface-acquired-hostname-source>*i-a-h-s*  
             </interface-acquired-hostname-source>  
         <interface-acquired-configuration-filename>*int-ac-config-filenm*  
             </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

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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/9.3R1/junos-bfd>. To review the DTD for the tags, see “DTD for BFD Response Tags” on page 1659.

### <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>  
     </bfd-client>  
 </bfd-session>

**Description** Information about the clients.

**Contents** <client-holddown-interval>—Hold interval for which BFD does not send a session UP notification to the client (seconds).

<client-multiplier>—Multiplier that the client has requested to determine the liveness of the BFD session.

<client-name>—Protocol for which the BFD session is active (for example: OSPF, ISIS, Static, and so on) .

<client-reception-interval>—Base frequency that the client has proposed for peer to 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 BFD control 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 the BFD 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>m-a-i
    </minimum-asynchronous-interval>
<minimum-slow-interval>mini-sl-int
    </minimum-slow-interval>
<adaptive-asynchronous-transmission-interval>adaptive-asyn-trans-int
    </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-routing-table-index>multihop-routing-table-index
  </multihop-routing-table-index>
<multihop-local-address>multihop-local-address</multihop-local-address>
</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 route flapping.
- <adaptive-reception-interval>—Adjusted value of minimum reception interval.
- <bfd-client>—Information about the clients.
- <detection-multiplier>—Desired detect time multiplier for BFD control packets. It is multiplied by the negotiated control packet reception interval to determine the session detection time (time to detect whether the session is alive).
- <echo-mode-desired>—Indicates whether the local system proposes that echo transmissions be enabled for the BFD session.
- <echo-mode-state>—Indicates whether echo transmissions are enabled for the BFD session.
- <holddown-timer>—Status of version negotiation.
- <issu-state>—ISSU state of the session.
- <local-diagnostic>—Information provided by the local host about BFD sessions that have failed (for example if the node is administratively down or a control timer has expired).
- <local-discriminator>—Authentication code used by the local system to identify the BFD session.

- <logical-system-id>—Logical system on which the session is established.
- <minimum-asynchronous-interval>—Minimum amount of time that the local system proposes for the delay between transmission of asynchronous control packets across the BFD session (seconds).
- <minimum-reception-interval>—Minimum amount of time that the local system waits between checks 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 for the delay between transmission of control packets across the BFD session (seconds). It is either the minimum slow interval or the adaptive asynchronous transmission interval.
- <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-plane independent.
- <neighbor-minimum-reception-interval>—Minimum amount of time that the remote system waits between checks for newly received control packets (seconds).
- <neighbor-minimum-transmission-interval>—Minimum amount of time that the remote system proposes for the delay between transmission of control packets across the BFD session (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 sessions that have failed (for example if the node is administratively down or a control timer has expired).
- <remote-discriminator>—Authentication code used by the remote system to identify the BFD session.

- `<remote-listen>`—(BFD version 0 only.) Indicates whether the remote system is receiving 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 and standby RE.
- `<route-table-index>`—Routing table index for the current logical system.
- `<session-adaptive-multiplier>`—The adjusted value of detect multiplier.
- `<session-detection-time>`—Time period within which the host must receive BFD control packets 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-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 control packets (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 time before an SNMP trap is generated.
- `<threshold-transmission-interval>`—The maximum duration (in seconds) for the transmission interval 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 in all active sessions.

<cumulative-transmission-rate>—Number of BFD control packets transmitted per second in all active sessions.

<error-value>—Error code that is returned when a 'clear' operation (such as the 'clear bfd session' command) fails.

<sessions>—Total number of active BFD sessions.

## Summary of Connectivity Fault Management Response Tags

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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/9.3R1/junos-cfm>. To review the DTD for the tags, see “DTD for Connectivity Fault Management Response Tags” on page 1663.

### **<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-maint-asc-name*  
             </cfm-maintenance-association-name>  
         <cfm-maintenance-association-name-format>*cfm-maint-assc-nm-frmt*  
             </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-entry>**

**Usage** <cfm-interface | cfm-mep-database>  
**<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-entry>**  
 </cfm-interface | cfm-mep-database>

**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-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-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-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-ma-as-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-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>**

<b>Usage</b>	<code>&lt;cfm-firewall-filter-instance-information   cfm-firewall-filter-interface-information&gt;</code> <b>&lt;cfm-filter-term&gt;</b> <code>&lt;cfm-filter-term-name&gt;cfm-filter-term-name&lt;/cfm-filter-term-name&gt;</code> <code>&lt;cfm-filter-term-id&gt;cfm-filter-term-id&lt;/cfm-filter-term-id&gt;</code> <code>&lt;cfm-filter-term-state&gt;cfm-filter-term-state&lt;/cfm-filter-term-state&gt;</code> <code>&lt;cfm-filter-term-key&gt;cfm-filter-term-key&lt;/cfm-filter-term-key&gt;</code> <code>&lt;cfm-filter-term-action&gt;cfm-filter-term-action&lt;/cfm-filter-term-action&gt;</code> <code>&lt;cfm-filter-term-action-details&gt;cfm-filter-term-action-details</code> <code>&lt;/cfm-filter-term-action-details&gt;</code> <code>&lt;cfm-flood-nexthop-components&gt;...&lt;/cfm-flood-nexthop-components&gt;</code> <b>&lt;/cfm-filter-term&gt;</b> <code>&lt;/cfm-firewall-filter-instance-information   cfm-firewall-filter-interface-information&gt;</code>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<code>&lt;cfm-filter-term-action&gt;</code> —No documentation is available yet. <code>&lt;cfm-filter-term-action-details&gt;</code> —No documentation is available yet. <code>&lt;cfm-filter-term-id&gt;</code> —No documentation is available yet. <code>&lt;cfm-filter-term-key&gt;</code> —No documentation is available yet. <code>&lt;cfm-filter-term-name&gt;</code> —No documentation is available yet. <code>&lt;cfm-filter-term-state&gt;</code> —No documentation is available yet. <code>&lt;cfm-flood-nexthop-components&gt;</code> —No documentation is available yet.

**<cfm-firewall-filter-instance-information>**

<b>Usage</b>	<code>&lt;rpc-reply&gt;</code> <b>&lt;cfm-firewall-filter-instance-information&gt;</b> <code>&lt;cfm-instance-name&gt;cfm-instance-name&lt;/cfm-instance-name&gt;</code> <code>&lt;cfm-filter&gt;...&lt;/cfm-filter&gt;</code> <code>&lt;cfm-filter-term&gt;...&lt;/cfm-filter-term&gt;</code> <b>&lt;/cfm-firewall-filter-instance-information&gt;</b> <code>&lt;/rpc-reply&gt;</code>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<code>&lt;cfm-filter&gt;</code> —No documentation is available yet. <code>&lt;cfm-filter-term&gt;</code> —No documentation is available yet. <code>&lt;cfm-instance-name&gt;</code> —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-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>**

<b>Usage</b>	<pre> &lt;cfm-interface-session&gt;   &lt;b&gt;cfm-interface-local-mep-defects&lt;/b&gt;     &lt;cfm-defect-remote-mep-no-ccm&gt;cfm-defect-remote-mep-no-ccm     &lt;/cfm-defect-remote-mep-no-ccm&gt;     &lt;cfm-defect-error-ccm&gt;cfm-defect-error-ccm&lt;/cfm-defect-error-ccm&gt;     &lt;cfm-defect-cross-connect-ccm&gt;cfm-defect-cross-connect-ccm     &lt;/cfm-defect-cross-connect-ccm&gt;     &lt;cfm-defect-rdi-in-some-mep&gt;cfm-defect-rdi-in-some-mep     &lt;/cfm-defect-rdi-in-some-mep&gt;   &lt;b&gt;cfm-interface-local-mep-defects&lt;/b&gt; &lt;/cfm-interface-session&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p><b>&lt;cfm-defect-cross-connect-ccm&gt;</b>—Indicates whether cross-connect continuity-check messages (CCMs) were received.</p> <p><b>&lt;cfm-defect-error-ccm&gt;</b>—Indicates whether erroneous continuity-check messages (CCMs) were received.</p> <p><b>&lt;cfm-defect-rdi-in-some-mep&gt;</b>—Indicates whether any remote MEPs are sending continuity-check messages (CCMs) with the RDI bit set.</p> <p><b>&lt;cfm-defect-remote-mep-no-ccm&gt;</b>—Indicates whether remote MEPs are receiving continuity-check messages (CCMs).</p>

**<cfm-interface-local-mep-info>**

<b>Usage</b>	<pre> &lt;cfm-interface-session&gt;   &lt;b&gt;cfm-interface-local-mep-info&lt;/b&gt;     &lt;cfm-local-mep-identifier&gt;cfm-local-mep-identifier&lt;/cfm-local-mep-identifier&gt;     &lt;cfm-local-mep-direction&gt;cfm-local-mep-direction&lt;/cfm-local-mep-direction&gt;     &lt;cfm-local-mep-mac-address&gt;cfm-local-mep-mac-address     &lt;/cfm-local-mep-mac-address&gt;     &lt;cfm-local-mep-status&gt;cfm-local-mep-status&lt;/cfm-local-mep-status&gt;   &lt;b&gt;cfm-interface-local-mep-info&lt;/b&gt; &lt;/cfm-interface-session&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p><b>&lt;cfm-local-mep-direction&gt;</b>—Direction in which continuity-check messages are sent.</p> <p><b>&lt;cfm-local-mep-identifier&gt;</b>—Identifier of local MEP.</p> <p><b>&lt;cfm-local-mep-mac-address&gt;</b>—MAC address of local MEP.</p> <p><b>&lt;cfm-local-mep-status&gt;</b>—Status of maintenance association endpoint.</p>

**<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-interface-local-mep-statistics>**  
 </cfm-interface-session>

**Description** No documentation is available yet.

**Contents** <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-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-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-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-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-maint-as-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-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-mac-address>—MAC address of 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-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-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-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-local-mep-statistics>**  
 </cfm-entry>

**Description** No documentation is available yet.

**Contents** <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-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-maint-asc-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-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-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-meps>**  
     </cfm-entry>
- 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-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>**

<b>Usage</b>	<pre> &lt;cfm-transmit-interface-information&gt;   &lt;b&gt;cfm-route-maintenance-domain-level&lt;/b&gt;     &lt;cfm-level&gt;cfm-level&lt;/cfm-level&gt;     &lt;cfm-local-mep-direction&gt;cfm-local-mep-direction&lt;/cfm-local-mep-direction&gt;     &lt;cfm-transmit-route-prefix&gt;cfm-transmit-route-prefix       &lt;/cfm-transmit-route-prefix&gt;     &lt;cfm-nexthop-index&gt;cfm-nexthop-index&lt;/cfm-nexthop-index&gt;     &lt;cfm-flood-nexthop-components&gt;...&lt;/cfm-flood-nexthop-components&gt;   &lt;/cfm-route-maintenance-domain-level&gt; &lt;/cfm-transmit-interface-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;cfm-flood-nexthop-components&gt;—No documentation is available yet.</p> <p>&lt;cfm-level&gt;—Maintenance-domain level.</p> <p>&lt;cfm-local-mep-direction&gt;—Direction in which continuity-check messages are sent.</p> <p>&lt;cfm-nexthop-index&gt;—No documentation is available yet.</p> <p>&lt;cfm-transmit-route-prefix&gt;—Route prefix looked up for forwarding locally generated packets.</p>

**<cfm-route-socket-message-counters>**

<b>Usage</b>	<pre> &lt;cfm-counters-route-socket-operations   cfm-counters-route-socket-received&gt;   &lt;b&gt;cfm-route-socket-message-counters&lt;/b&gt;     &lt;cfm-route-socket-message-type&gt;cfm-route-socket-message-type       &lt;/cfm-route-socket-message-type&gt;     &lt;cfm-route-socket-message-add&gt;cfm-route-socket-message-add       &lt;/cfm-route-socket-message-add&gt;     &lt;cfm-route-socket-message-change&gt;cfm-route-socket-message-change       &lt;/cfm-route-socket-message-change&gt;     &lt;cfm-route-socket-message-delete&gt;cfm-route-socket-message-delete       &lt;/cfm-route-socket-message-delete&gt;   &lt;/cfm-route-socket-message-counters&gt; &lt;/cfm-counters-route-socket-operations   cfm-counters-route-socket-received&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;cfm-route-socket-message-add&gt;—No documentation is available yet.</p> <p>&lt;cfm-route-socket-message-change&gt;—No documentation is available yet.</p> <p>&lt;cfm-route-socket-message-delete&gt;—No documentation is available yet.</p> <p>&lt;cfm-route-socket-message-type&gt;—No documentation is available yet.</p>



**<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-requests>*cfm-dfwd-requests*</cfm-dfwd-requests>  
**</cfmd-internal-state>**  
 </rpc-reply>

**Description** No documentation is available yet.

**Contents** <cfm-dfwd-connection-state>—No documentation is available yet.  
 <cfm-dfwd-requests>—No documentation is available yet.  
 <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

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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/9.3R1/junos-chassis>. To review the DTD for the tags, see “DTD for Chassis Response Tags” on page 1671.

### <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>**

<b>Usage</b>	<pre> &lt;craft-information&gt;   &lt;cb-panel&gt;     &lt;cb&gt;...&lt;/cb&gt;   &lt;/cb-panel&gt; &lt;/craft-information&gt; </pre>
<b>Description</b>	State of status LEDs on one or more Control Boards.
<b>Contents</b>	<cb>—State of status LEDs on a Control Board.

**<chassis>**

<b>Usage</b>	<pre> &lt;chassis-inventory   firmware-information&gt;   &lt;chassis&gt;     &lt;hardware-incomplete/&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;version&gt;version&lt;/version&gt;     &lt;part-number&gt;part-number&lt;/part-number&gt;     &lt;serial-number&gt;serial-number&lt;/serial-number&gt;     &lt;model-number&gt;model-number&lt;/model-number&gt;     &lt;clei-code&gt;clei-code&lt;/clei-code&gt;     &lt;description&gt;description&lt;/description&gt;     &lt;i2c-information&gt;...&lt;/i2c-information&gt;     &lt;chassis-module&gt;...&lt;/chassis-module&gt;   &lt;/chassis&gt; &lt;/chassis-inventory   firmware-information&gt; </pre>
<b>Description</b>	Hardware inventory of this chassis.
<b>Contents</b>	<p>&lt;chassis-module&gt;—No documentation is available yet.</p> <p>&lt;clei-code&gt;—Common Language Equipment Identifier code of this component.</p> <p>&lt;description&gt;—Description of this component.</p> <p>&lt;hardware-incomplete&gt;—No documentation is available yet.</p> <p>&lt;i2c-information&gt;—No documentation is available yet.</p> <p>&lt;model-number&gt;—Model number of this component.</p> <p>&lt;name&gt;—Name of this component.</p> <p>&lt;part-number&gt;—Part number of this component.</p> <p>&lt;serial-number&gt;—Serial number of this component.</p> <p>&lt;version&gt;—Version of this component.</p>

**<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>**

<b>Usage</b>	<chassis-location   multi-routing-engine-item> <b>&lt;chassis-location-information&gt;</b> <country-code> <i>country-code</i> </country-code> <postal-code> <i>postal-code</i> </postal-code> <npa-nxx> <i>npa-nxx</i> </npa-nxx> <latitude> <i>latitude</i> </latitude> <longitude> <i>longitude</i> </longitude> <altitude> <i>altitude</i> </altitude> <lata> <i>lata</i> </lata> <vcoord> <i>vcoord</i> </vcoord> <hcoord> <i>hcoord</i> </hcoord> <building> <i>building</i> </building> <floor> <i>floor</i> </floor> <rack> <i>rack</i> </rack> <b>&lt;/chassis-location-information&gt;</b> </chassis-location   multi-routing-engine-item>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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.

**<craft-information>**

**Usage** <rpc-reply>  
     **<craft-information>**  
         <front-panel>...</front-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 of the 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.

<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>**

<b>Usage</b>	<pre> &lt;synchronization-source-list&gt;   &lt;current-source&gt;     &lt;clock-state&gt;clock-state&lt;/clock-state&gt;     &lt;up-time&gt;up-time&lt;/up-time&gt;     &lt;active-time&gt;active-time&lt;/active-time&gt;     &lt;deviation&gt;deviation&lt;/deviation&gt;     &lt;last-deviation&gt;last-deviation&lt;/last-deviation&gt;   &lt;/current-source&gt; &lt;/synchronization-source-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;active-time&gt;—Time since clock synchronization source is in use.</p> <p>&lt;clock-state&gt;—State of the clock synchronization source.</p> <p>&lt;deviation&gt;—Frequency deviation of clock synchronization source.</p> <p>&lt;last-deviation&gt;—Frequency deviation measured last.</p> <p>&lt;up-time&gt;—Length of time this component has been operational.</p>

**<database-memory-usage>**

<b>Usage</b>	<pre> &lt;chassisd-database-memory-usage&gt;   &lt;database-memory-usage&gt;     &lt;database-size&gt;database-size&lt;/database-size&gt;     &lt;database-allocated-size&gt;database-allocated-size&lt;/database-allocated-size&gt;     &lt;database-free-size&gt;database-free-size&lt;/database-free-size&gt;   &lt;/database-memory-usage&gt; &lt;/chassisd-database-memory-usage&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;database-allocated-size&gt;—Number of bytes used by the database.</p> <p>&lt;database-free-size&gt;—Number of bytes free within the database.</p> <p>&lt;database-size&gt;—Database size.</p>

**<dc-detail>**

<b>Usage</b>	<pre> &lt;dc-information&gt;   &lt;dc-detail&gt;     &lt;dc-device&gt;<i>dc-device</i>&lt;/dc-device&gt;     &lt;dc-voltage&gt;<i>dc-voltage</i>&lt;/dc-voltage&gt;     &lt;dc-current&gt;<i>dc-current</i>&lt;/dc-current&gt;     &lt;dc-power&gt;<i>dc-power</i>&lt;/dc-power&gt;     &lt;dc-load&gt;<i>dc-load</i>&lt;/dc-load&gt;   &lt;/dc-detail&gt; &lt;/dc-information&gt; </pre>
<b>Description</b>	Detailed DC information.
<b>Contents</b>	<p>&lt;dc-current&gt;—No documentation is available yet.</p> <p>&lt;dc-device&gt;—No documentation is available yet.</p> <p>&lt;dc-load&gt;—No documentation is available yet.</p> <p>&lt;dc-power&gt;—No documentation is available yet.</p> <p>&lt;dc-voltage&gt;—No documentation is available yet.</p>

**<dc-information>**

<b>Usage</b>	<pre> &lt;environment-component-item&gt;   &lt;dc-information&gt;     &lt;dc-input&gt;<i>dc-input</i>&lt;/dc-input&gt;     &lt;dc-output&gt;<i>dc-output</i>&lt;/dc-output&gt;     &lt;dc-detail&gt;...&lt;/dc-detail&gt;   &lt;/dc-information&gt; &lt;/environment-component-item&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;dc-detail&gt;—Detailed DC information.</p> <p>&lt;dc-input&gt;—DC input state.</p> <p>&lt;dc-output&gt;—DC output state.</p>

**<display-panel>**

<b>Usage</b>	<pre> &lt;front-panel&gt;   &lt;display-panel&gt;     &lt;display-line&gt;<i>display-line</i>&lt;/display-line&gt;   &lt;/display-panel&gt; &lt;/front-panel&gt; </pre>
<b>Description</b>	Text currently appearing on the craft interface display.
<b>Contents</b>	<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 register 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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;fan-information&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;status&gt;status&lt;/status&gt;     &lt;rpm&gt;rpm&lt;/rpm&gt;     &lt;comment&gt;comment&lt;/comment&gt;     &lt;fan-information-item&gt;fan-information-item&lt;/fan-information-item&gt;   &lt;/fan-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;comment&gt;—No documentation is available yet.</p> <p>&lt;fan-information-item&gt;—No documentation is available yet.</p> <p>&lt;name&gt;—Name of this component.</p> <p>&lt;rpm&gt;—Fan speed in RPM.</p> <p>&lt;status&gt;—Status of clock synchronization source.</p>

**<fan-tray>**

<b>Usage</b>	<pre> &lt;fan-tray-panel&gt;   &lt;fan-tray&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;red-led/&gt;     &lt;green-led/&gt;   &lt;/fan-tray&gt; &lt;/fan-tray-panel&gt; </pre>
<b>Description</b>	State of the status LEDs on the craft interface for a fan tray.
<b>Contents</b>	<p>&lt;green-led&gt;—Green LED is lit.</p> <p>&lt;red-led&gt;—Red LED is lit.</p> <p>&lt;slot&gt;—No documentation is available yet.</p>

**<fan-tray-panel>**

<b>Usage</b>	<pre> &lt;craft-information&gt;   &lt;fan-tray-panel&gt;     &lt;fan-tray&gt;...&lt;/fan-tray&gt;   &lt;/fan-tray-panel&gt; &lt;/craft-information&gt; </pre>
<b>Description</b>	State of status LEDs on the craft interface for Fan Trays.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;fm-fpc-state-information&gt;   &lt;fm-fpc-ln&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;fm-pfe-ln&gt;...&lt;/fm-pfe-ln&gt;   &lt;/fm-fpc-ln&gt; &lt;/fm-fpc-state-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fm-pfe-ln&gt;—No documentation is available yet.</p> <p>&lt;slot&gt;—No documentation is available yet.</p>

**<fm-fpc-state-information>**

<b>Usage</b>	<pre> &lt;multi-routing-engine-item&gt;   &lt;fm-fpc-state-information&gt;     &lt;fm-fpc-ln&gt;...&lt;/fm-fpc-ln&gt;   &lt;/fm-fpc-state-information&gt; &lt;/multi-routing-engine-item&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<fm-fpc-ln>—No documentation is available yet.

**<fm-pfe-ln>**

<b>Usage</b>	<pre> &lt;fm-fpc-ln&gt;   &lt;fm-pfe-ln&gt;     &lt;pfe-slot&gt;pfe-slot&lt;/pfe-slot&gt;     &lt;fm-sib-ln&gt;...&lt;/fm-sib-ln&gt;   &lt;/fm-pfe-ln&gt; &lt;/fm-fpc-ln&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fm-sib-ln&gt;—No documentation is available yet.</p> <p>&lt;pfe-slot&gt;—No documentation is available yet.</p>

**<fm-sib-ln>**

<b>Usage</b>	<pre> &lt;fm-pfe-ln&gt;   &lt;fm-sib-ln&gt;     &lt;sib-slot&gt;sib-slot&lt;/sib-slot&gt;     &lt;sib-fm-state&gt;sib-fm-state&lt;/sib-fm-state&gt;   &lt;/fm-sib-ln&gt; &lt;/fm-pfe-ln&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;sib-fm-state&gt;—No documentation is available yet.</p> <p>&lt;sib-slot&gt;—No documentation is available yet.</p>

**<fm-sib-state-information>**

<b>Usage</b>	<pre> &lt;multi-routing-engine-item&gt;   &lt;fm-sib-state-information&gt;     &lt;fms-sib-ln&gt;...&lt;/fms-sib-ln&gt;   &lt;/fm-sib-state-information&gt; &lt;/multi-routing-engine-item&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<fms-sib-ln>—No documentation is available yet.

**<fms-fpc-ln>**

<b>Usage</b>	<pre> &lt;fms-sib-ln&gt;   &lt;fms-fpc-ln&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;fms-pfe-ln&gt;...&lt;/fms-pfe-ln&gt;   &lt;/fms-fpc-ln&gt; &lt;/fms-sib-ln&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fms-pfe-ln&gt;—No documentation is available yet.</p> <p>&lt;slot&gt;—No documentation is available yet.</p>

**<fms-lcc-ln>**

<b>Usage</b>	<pre> &lt;fms-sib-ln&gt;   &lt;b&gt;fms-lcc-ln&lt;/b&gt;     &lt;lcc-slot&gt;lcc-slot&lt;/lcc-slot&gt;     &lt;fms-lcc-link-state&gt;fms-lcc-link-state&lt;/fms-lcc-link-state&gt;   &lt;/fms-lcc-ln&gt; &lt;/fms-sib-ln&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fms-lcc-link-state&gt;—No documentation is available yet.</p> <p>&lt;lcc-slot&gt;—No documentation is available yet.</p>

**<fms-pfe-ln>**

<b>Usage</b>	<pre> &lt;fms-fpc-ln&gt;   &lt;b&gt;fms-pfe-ln&lt;/b&gt;     &lt;pfe-slot&gt;pfe-slot&lt;/pfe-slot&gt;     &lt;fms-pfe-link-state&gt;fms-pfe-link-state&lt;/fms-pfe-link-state&gt;   &lt;/fms-pfe-ln&gt; &lt;/fms-fpc-ln&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fms-pfe-link-state&gt;—No documentation is available yet.</p> <p>&lt;pfe-slot&gt;—No documentation is available yet.</p>

**<fms-scc-ln>**

<b>Usage</b>	<pre> &lt;fms-sib-ln&gt;   &lt;b&gt;fms-scc-ln&lt;/b&gt;     &lt;fms-scc-link-state&gt;fms-scc-link-state&lt;/fms-scc-link-state&gt;   &lt;/fms-scc-ln&gt; &lt;/fms-sib-ln&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>  
     **<fpc-information>**  
         <fpc>...</fpc>  
     **</fpc-information>**  
 </multi-routing-engine-item>

**Description** No documentation is available yet.

**Contents** <fpc>—No documentation is available yet.

**<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 register 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.

**<i2c-information>**

<b>Usage</b>	<pre> &lt;chassis   chassis-module   chassis-sub-module&gt;   &lt;i2c-information&gt;     &lt;jedec-code&gt;jedec-code&lt;/jedec-code&gt;     &lt;eeprom-version&gt;eeprom-version&lt;/eeprom-version&gt;     &lt;part-number&gt;part-number&lt;/part-number&gt;     &lt;serial-number&gt;serial-number&lt;/serial-number&gt;     &lt;model-number&gt;model-number&lt;/model-number&gt;     &lt;clei-code&gt;clei-code&lt;/clei-code&gt;     &lt;assembly-identifier&gt;assembly-identifier&lt;/assembly-identifier&gt;     &lt;assembly-version&gt;assembly-version&lt;/assembly-version&gt;     &lt;manufacture-date&gt;manufacture-date&lt;/manufacture-date&gt;     &lt;assembly-flags&gt;assembly-flags&lt;/assembly-flags&gt;     &lt;i2c-version&gt;i2c-version&lt;/i2c-version&gt;     &lt;i2c-identifier&gt;i2c-identifier&lt;/i2c-identifier&gt;     &lt;i2c-data&gt;i2c-data&lt;/i2c-data&gt;     &lt;board-information-record&gt;board-information-record&lt;/board-information-record&gt;   &lt;/i2c-information&gt; &lt;/chassis   chassis-module   chassis-sub-module&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;assembly-flags&gt;—No documentation is available yet.</p> <p>&lt;assembly-identifier&gt;—No documentation is available yet.</p> <p>&lt;assembly-version&gt;—No documentation is available yet.</p> <p>&lt;board-information-record&gt;—Hex dump of board information record.</p> <p>&lt;clei-code&gt;—Common Language Equipment Identifier code of this component.</p> <p>&lt;eeprom-version&gt;—No documentation is available yet.</p> <p>&lt;i2c-data&gt;—Hex dump of I2C data.</p> <p>&lt;i2c-identifier&gt;—No documentation is available yet.</p> <p>&lt;i2c-version&gt;—No documentation is available yet.</p> <p>&lt;jedec-code&gt;—No documentation is available yet.</p> <p>&lt;manufacture-date&gt;—Date this component was manufactured.</p> <p>&lt;model-number&gt;—Model number of this component.</p> <p>&lt;part-number&gt;—Part number of this component.</p> <p>&lt;serial-number&gt;—Serial number of this component.</p>

**<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.

**<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>**

<b>Usage</b>	<pre> &lt;lcc-information&gt;   &lt;lcc&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;state&gt;state&lt;/state&gt;     &lt;up-time&gt;up-time&lt;/up-time&gt;     &lt;comment&gt;comment&lt;/comment&gt;   &lt;/lcc&gt; &lt;/lcc-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;comment&gt;—No documentation is available yet.</p> <p>&lt;slot&gt;—No documentation is available yet.</p> <p>&lt;state&gt;—Status of the component.</p> <p>&lt;up-time&gt;—Length of time this component has been operational.</p>

**<lcc-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;lcc-information&gt;     &lt;lcc&gt;...&lt;/lcc&gt;   &lt;/lcc-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<lcc>—No documentation is available yet.

**<marked-as-failed-source>**

<b>Usage</b>	<pre> &lt;marked-as-failed-source-list&gt;   &lt;marked-as-failed-source&gt;     &lt;source-name&gt;source-name&lt;/source-name&gt;   &lt;/marked-as-failed-source&gt; &lt;/marked-as-failed-source-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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.

**<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>  
         <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.

<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.

## <port>

**Usage** <port-information>  
     **<port>**  
         <port-number>*port-number*</port-number>  
         <cabl-e-type>*cabl-e-type*</cabl-e-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** <cabl-e-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 information about JSeries Power Management.
- Contents** <power-management>—Information about JSeries Power Management.

**<power-supply>**

<b>Usage</b>	<pre> &lt;power-supply-panel&gt;   &lt;power-supply&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;amber-led/&gt;     &lt;green-led/&gt;     &lt;blue-led/&gt;   &lt;/power-supply&gt; &lt;/power-supply-panel&gt; </pre>
<b>Description</b>	State of the status LEDs on the faceplate of a power supply.
<b>Contents</b>	<p>&lt;amber-led&gt;—Amber LED is lit.</p> <p>&lt;blue-led&gt;—Blue LED is lit.</p> <p>&lt;green-led&gt;—Green LED is lit.</p> <p>&lt;slot&gt;—No documentation is available yet.</p>

**<power-supply-panel>**

<b>Usage</b>	<pre> &lt;craft-information&gt;   &lt;power-supply-panel&gt;     &lt;power-supply&gt;...&lt;/power-supply&gt;   &lt;/power-supply-panel&gt; &lt;/craft-information&gt; </pre>
<b>Description</b>	State of the status LEDs on the faceplate of one or more power supplies.
<b>Contents</b>	<power-supply>—State of the status LEDs on the faceplate of a power supply.

**<power-title>**

<b>Usage</b>	<pre> &lt;power-information&gt;   &lt;power-title&gt;     &lt;power-type&gt;power-type&lt;/power-type&gt;     &lt;power-state&gt;power-state&lt;/power-state&gt;   &lt;/power-title&gt; &lt;/power-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;power-state&gt;—State of power.</p> <p>&lt;power-type&gt;—Title for the display of power.</p>



**<psd>**

<b>Usage</b>	<pre> &lt;psd-information&gt;   &lt;psd&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;description&gt;description&lt;/description&gt;     &lt;state&gt;state&lt;/state&gt;     &lt;up-time&gt;up-time&lt;/up-time&gt;     &lt;comment&gt;comment&lt;/comment&gt;   &lt;/psd&gt; &lt;/psd-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;comment&gt;—No documentation is available yet.</p> <p>&lt;description&gt;—Description of this component.</p> <p>&lt;slot&gt;—No documentation is available yet.</p> <p>&lt;state&gt;—Status of the component.</p> <p>&lt;up-time&gt;—Length of time this component has been operational.</p>

**<psd-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;psd-information&gt;     &lt;psd&gt;...&lt;/psd&gt;   &lt;/psd-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;read-register&gt;     &lt;cb-slot&gt;<i>cb-slot</i>&lt;/cb-slot&gt;     &lt;fchip-id&gt;<i>fchip-id</i>&lt;/fchip-id&gt;     &lt;address&gt;<i>address</i>&lt;/address&gt;     &lt;data&gt;<i>data</i>&lt;/data&gt;   &lt;/read-register&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Read switch fabric register.
<b>Contents</b>	<p>&lt;address&gt;—No documentation is available yet.</p> <p>&lt;cb-slot&gt;—No documentation is available yet.</p> <p>&lt;data&gt;—No documentation is available yet.</p> <p>&lt;fchip-id&gt;—F-chip id.</p>

**<revision>**

<b>Usage</b>	<pre> &lt;environment-component-item&gt;   &lt;revision&gt;     &lt;revision-name&gt;<i>revision-name</i>&lt;/revision-name&gt;     &lt;revision-number&gt;<i>revision-number</i>&lt;/revision-number&gt;   &lt;/revision&gt; &lt;/environment-component-item&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;revision-name&gt;—Revision Name.</p> <p>&lt;revision-number&gt;—Revision Number.</p>

**<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>  
 <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.  
 <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.

<description>—Description of this component.

<last-reboot-reason>—Last reboot reason of routing 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>**

<b>Usage</b>	<pre> &lt;multi-routing-engine-item&gt;   &lt;route-engine-information&gt;     &lt;route-engine&gt;...&lt;/route-engine&gt;   &lt;/route-engine-information&gt; &lt;/multi-routing-engine-item&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;multi-routing-engine-item&gt;   &lt;scb-information&gt;     &lt;scb-type&gt;scb-type&lt;/scb-type&gt;     &lt;scb&gt;...&lt;/scb&gt;   &lt;/scb-information&gt; &lt;/multi-routing-engine-item&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;scb&gt;—No documentation is available yet.</p> <p>&lt;scb-type&gt;—No documentation is available yet.</p>

**<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.

**<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>**

<b>Usage</b>	<pre> &lt;craft-information&gt;   &lt;sfm-panel&gt;     &lt;sfm&gt;...&lt;/sfm&gt;   &lt;/sfm-panel&gt; &lt;/craft-information&gt; </pre>
<b>Description</b>	State of the status LEDs on the faceplate of one or more Switching and Forwarding Modules.
<b>Contents</b>	<sfm>—State of the status LEDs on the faceplate of a Switching and Forwarding Module.

**<sib>**

<b>Usage</b>	<pre> &lt;sib-information   sib-panel&gt;   &lt;sib&gt;     &lt;slot&gt;slot&lt;/slot&gt;     &lt;state&gt;state&lt;/state&gt;     &lt;up-time&gt;up-time&lt;/up-time&gt;     &lt;comment&gt;comment&lt;/comment&gt;     &lt;ok-led/&gt;     &lt;fail-led/&gt;     &lt;active-led/&gt;   &lt;/sib&gt; &lt;/sib-information   sib-panel&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;active-led&gt;—Active LED is lit.</p> <p>&lt;comment&gt;—No documentation is available yet.</p> <p>&lt;fail-led&gt;—Fail LED is lit.</p> <p>&lt;ok-led&gt;—OK LED is lit.</p> <p>&lt;slot&gt;—No documentation is available yet.</p> <p>&lt;state&gt;—Status of the component.</p> <p>&lt;up-time&gt;—Length of time this component has been operational.</p>

**<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.

**<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

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This section lists JUNOS XML tags that contain operational information about class of service. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-cos>. To review the DTD for the tags, see “DTD for Class-of-Service Response Tags” on page 1687.

### <adaptive-shaper>

<b>Usage</b>	<pre>&lt;cos-adaptive-shaper-information&gt;   &lt;adaptive-shaper&gt;     &lt;adaptive-shaper-name&gt;adaptive-shaper-name&lt;/adaptive-shaper-name&gt;     &lt;table-index&gt;table-index&lt;/table-index&gt;     &lt;trigger-item&gt;...&lt;/trigger-item&gt;   &lt;/adaptive-shaper&gt; &lt;/cos-adaptive-shaper-information&gt;</pre>
<b>Description</b>	Class-of-service adaptive shaper.
<b>Contents</b>	<p>&lt;adaptive-shaper-name&gt;—Class-of-service adaptive shaper name.</p> <p>&lt;table-index&gt;—Table index.</p> <p>&lt;trigger-item&gt;—No documentation is available yet.</p>

### <alias-map>

<b>Usage</b>	<pre>&lt;code-point-map&gt;   &lt;alias-map&gt;     &lt;alias-map-item&gt;...&lt;/alias-map-item&gt;   &lt;/alias-map&gt; &lt;/code-point-map&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<alias-map-item>—No documentation is available yet.

### <alias-map-item>

<b>Usage</b>	<pre>&lt;alias-map&gt;   &lt;alias-map-item&gt;     &lt;code-point-bits&gt;code-point-bits&lt;/code-point-bits&gt;     &lt;code-point-alias&gt;code-point-alias&lt;/code-point-alias&gt;   &lt;/alias-map-item&gt; &lt;/alias-map&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;code-point-alias&gt;—Class-of-service code point alias name.</p> <p>&lt;code-point-bits&gt;—Class-of-service code point bit sequence.</p>

**<channel>**

<b>Usage</b>	<pre> &lt;virtual-channel-group&gt;   &lt;channel&gt;     &lt;virtual-channel-name&gt;virtual-channel-name&lt;/virtual-channel-name&gt;     &lt;scheduler-map-name&gt;scheduler-map-name&lt;/scheduler-map-name&gt;     &lt;channel-shaping-rate&gt;channel-shaping-rate&lt;/channel-shaping-rate&gt;   &lt;/channel&gt; &lt;/virtual-channel-group&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;channel-shaping-rate&gt;—Class-of-service channel shaping rate.</p> <p>&lt;scheduler-map-name&gt;—Class-of-service scheduler map name.</p> <p>&lt;virtual-channel-name&gt;—Class-of-service virtual channel name.</p>

**<classifier>**

<b>Usage</b>	<pre> &lt;cos-classifier-information&gt;   &lt;classifier&gt;     &lt;classifier-name&gt;classifier-name&lt;/classifier-name&gt;     &lt;code-point-type&gt;code-point-type&lt;/code-point-type&gt;     &lt;table-index&gt;table-index&lt;/table-index&gt;     &lt;classifier-map&gt;...&lt;/classifier-map&gt;   &lt;/classifier&gt; &lt;/cos-classifier-information&gt; </pre>
<b>Description</b>	Class-of-service code point classifier.
<b>Contents</b>	<p>&lt;classifier-map&gt;—No documentation is available yet.</p> <p>&lt;classifier-name&gt;—Class-of-service classifier name.</p> <p>&lt;code-point-type&gt;—Class-of-service code point type.</p> <p>&lt;table-index&gt;—Table index.</p>

**<classifier-map>**

<b>Usage</b>	<pre> &lt;classifier&gt;   &lt;classifier-map&gt;     &lt;classifier-map-item&gt;...&lt;/classifier-map-item&gt;   &lt;/classifier-map&gt; &lt;/classifier&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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.

**<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-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-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-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-fragmentation-map-information>—No documentation is available yet.  
 <cos-loss-priority-map-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-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>**

<b>Usage</b>	<pre> &lt;fabric-scheduler-map&gt;   &lt;fabric-scheduler&gt;     &lt;fabric-scheduler-name&gt;fabric-scheduler-name&lt;/fabric-scheduler-name&gt;     &lt;fabric-scheduler-index&gt;fabric-scheduler-index&lt;/fabric-scheduler-index&gt;     &lt;fabric-scheduler-drop-profile-ln-index&gt;fabric-scheduler-drop-profile-ln-index       &lt;/fabric-scheduler-drop-profile-ln-index&gt;     &lt;fabric-scheduler-drop-profile-ln&gt;fabric-scheduler-drop-profile-ln       &lt;/fabric-scheduler-drop-profile-ln&gt;     &lt;fabric-scheduler-drop-profile-lt-index&gt;fabric-scheduler-drop-profile-lt-index       &lt;/fabric-scheduler-drop-profile-lt-index&gt;     &lt;fabric-scheduler-drop-profile-lt&gt;fabric-scheduler-drop-profile-lt       &lt;/fabric-scheduler-drop-profile-lt&gt;     &lt;fabric-scheduler-drop-profile-hn-index&gt;fabric-scheduler-drop-profile-hn-index       &lt;/fabric-scheduler-drop-profile-hn-index&gt;     &lt;fabric-scheduler-drop-profile-hn&gt;fabric-scheduler-drop-profile-hn       &lt;/fabric-scheduler-drop-profile-hn&gt;     &lt;fabric-scheduler-drop-profile-ht-index&gt;fabric-scheduler-drop-profile-ht-index       &lt;/fabric-scheduler-drop-profile-ht-index&gt;     &lt;fabric-scheduler-drop-profile-ht&gt;fabric-scheduler-drop-profile-ht       &lt;/fabric-scheduler-drop-profile-ht&gt;   &lt;/fabric-scheduler&gt; &lt;/fabric-scheduler-map&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre> &lt;fabric-scheduler-drop-profile-hn&gt;—Class-of-service scheduler drop profile high, non-TCP.  &lt;fabric-scheduler-drop-profile-hn-index&gt;—Class-of-service scheduler drop profile index high, non-TCP.  &lt;fabric-scheduler-drop-profile-ht&gt;—Class-of-service scheduler drop profile high, TCP.  &lt;fabric-scheduler-drop-profile-ht-index&gt;—Class-of-service scheduler drop profile index high, TCP.  &lt;fabric-scheduler-drop-profile-ln&gt;—Class-of-service scheduler drop profile low, non-TCP.  &lt;fabric-scheduler-drop-profile-ln-index&gt;—Class-of-service scheduler drop profile index low, non-TCP.  &lt;fabric-scheduler-drop-profile-lt&gt;—Class-of-service scheduler drop profile low, TCP.  &lt;fabric-scheduler-drop-profile-lt-index&gt;—Class-of-service scheduler drop profile index low, TCP.  &lt;fabric-scheduler-index&gt;—Class of service scheduler index.  &lt;fabric-scheduler-name&gt;—Class-of-service scheduler name. </pre>

**<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>**

<b>Usage</b>	<pre> &lt;fabric-scheduler-map-table&gt;   &lt;fabric-scheduler-table&gt;     &lt;fabric-scheduler-index&gt;fabric-scheduler-index&lt;/fabric-scheduler-index&gt;     &lt;fabric-scheduler-drop-profile-hn-index&gt;fabric-scheduler-drop-profile-hn-index       &lt;/fabric-scheduler-drop-profile-hn-index&gt;     &lt;fabric-scheduler-drop-profile-ln-index&gt;fabric-scheduler-drop-profile-ln-index       &lt;/fabric-scheduler-drop-profile-ln-index&gt;     &lt;fabric-scheduler-drop-profile-ht-index&gt;fabric-scheduler-drop-profile-ht-index       &lt;/fabric-scheduler-drop-profile-ht-index&gt;     &lt;fabric-scheduler-drop-profile-lt-index&gt;fabric-scheduler-drop-profile-lt-index       &lt;/fabric-scheduler-drop-profile-lt-index&gt;   &lt;/fabric-scheduler-table&gt; &lt;/fabric-scheduler-map-table&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre> &lt;fabric-scheduler-drop-profile-hn-index&gt;—Class-of-service scheduler drop profile index high, non-TCP.  &lt;fabric-scheduler-drop-profile-ht-index&gt;—Class-of-service scheduler drop profile index high, TCP.  &lt;fabric-scheduler-drop-profile-ln-index&gt;—Class-of-service scheduler drop profile index low, non-TCP.  &lt;fabric-scheduler-drop-profile-lt-index&gt;—Class-of-service scheduler drop profile index low, TCP.  &lt;fabric-scheduler-index&gt;—Class of service scheduler index. </pre>

**<fc-map>**

<b>Usage</b>	<pre> &lt;cos-forwarding-class-information&gt;   &lt;fc-map&gt;     &lt;fc-map-item&gt;...&lt;/fc-map-item&gt;   &lt;/fc-map&gt; &lt;/cos-forwarding-class-information&gt; </pre>
<b>Description</b>	Class-of-service forwarding class to queue mapping.
<b>Contents</b>	<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.

**<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>**

<b>Usage</b>	<pre> &lt;fragmentation-map&gt;   &lt;fragment-map&gt;     &lt;fc-name&gt;fc-name&lt;/fc-name&gt;     &lt;fragment-threshold&gt;fragment-threshold&lt;/fragment-threshold&gt;     &lt;no-fragmentation/&gt;     &lt;fragment-multilink-class&gt;fragment-multilink-class&lt;/fragment-multilink-class&gt;   &lt;/fragment-map&gt; &lt;/fragmentation-map&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fc-name&gt;—Class-of-service forwarding class name.</p> <p>&lt;fragment-multilink-class&gt;—Identifier for multilink class.</p> <p>&lt;fragment-threshold&gt;—Fragmentation threshold.</p> <p>&lt;no-fragmentation&gt;—Do not fragment packets of this class.</p>

**<fragmentation-map>**

<b>Usage</b>	<pre> &lt;cos-fragmentation-map-information&gt;   &lt;fragmentation-map&gt;     &lt;fragmentation-map-name&gt;fragmentation-map-name&lt;/fragmentation-map-name&gt;     &lt;fragmentation-map-index&gt;fragmentation-map-index&lt;/fragmentation-map-index&gt;     &lt;fragment-map&gt;...&lt;/fragment-map&gt;   &lt;/fragmentation-map&gt; &lt;/cos-fragmentation-map-information&gt; </pre>
<b>Description</b>	Class-of-service fragmentation map.
<b>Contents</b>	<p>&lt;fragment-map&gt;—No documentation is available yet.</p> <p>&lt;fragmentation-map-index&gt;—Index number for Class-of-service fragmentation map.</p> <p>&lt;fragmentation-map-name&gt;—Class-of-service fragmentation map name.</p>

**<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>  
**</i-logical-map>**  
 </interface-map | routing-instance-map>

**Description** No documentation is available yet.

**Contents** <burst-size>—Class-of-service logical interface shaping burst.  
 <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>inp-sch-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>  
     **</interface-set-map>**  
 </cos-interface-set-information>

**Description** No documentation is available yet.

**Contents** <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>**

<b>Usage</b>	<pre> &lt;cos-scheduler-map-table-information&gt;   &lt;policy&gt;     &lt;interface&gt;interface&lt;/interface&gt;     &lt;interface-index&gt;interface-index&lt;/interface-index&gt;     &lt;policy-index&gt;policy-index&lt;/policy-index&gt;     &lt;policy-type&gt;policy-type&lt;/policy-type&gt;     &lt;policy-number-of-queues&gt;policy-number-of-queues&lt;/policy-number-of-queues&gt;     &lt;traffic-control-profile-name&gt;traffic-control-profile-name       &lt;/traffic-control-profile-name&gt;     &lt;traffic-control-profile-index&gt;traffic-control-profile-index       &lt;/traffic-control-profile-index&gt;     &lt;policy-entry&gt;...&lt;/policy-entry&gt;   &lt;/policy&gt; &lt;/cos-scheduler-map-table-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface&gt;—No documentation is available yet.</p> <p>&lt;interface-index&gt;—Class-of-service interface index.</p> <p>&lt;policy-entry&gt;—No documentation is available yet.</p> <p>&lt;policy-index&gt;—No documentation is available yet.</p> <p>&lt;policy-number-of-queues&gt;—Number of queues in this policy.</p> <p>&lt;policy-type&gt;—No documentation is available yet.</p> <p>&lt;traffic-control-profile-index&gt;—Index number for Class-of-service traffic control profile.</p> <p>&lt;traffic-control-profile-name&gt;—Class-of-service traffic control profile name.</p>

**<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>**

<b>Usage</b>	<pre> &lt;red&gt;   &lt;red-entry&gt;     &lt;red-entry-index&gt;red-entry-index&lt;/red-entry-index&gt;     &lt;red-fullness&gt;red-fullness&lt;/red-fullness&gt;     &lt;red-drop-probability&gt;red-drop-probability&lt;/red-drop-probability&gt;   &lt;/red-entry&gt; &lt;/red&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;red-drop-probability&gt;—No documentation is available yet.</p> <p>&lt;red-entry-index&gt;—No documentation is available yet.</p> <p>&lt;red-fullness&gt;—No documentation is available yet.</p>

**<rewrite>**

<b>Usage</b>	<pre> &lt;cos-rewrite-information&gt;   &lt;rewrite&gt;     &lt;rewrite-name&gt;rewrite-name&lt;/rewrite-name&gt;     &lt;code-point-type&gt;code-point-type&lt;/code-point-type&gt;     &lt;table-index&gt;table-index&lt;/table-index&gt;     &lt;rewrite-map&gt;...&lt;/rewrite-map&gt;   &lt;/rewrite&gt; &lt;/cos-rewrite-information&gt; </pre>
<b>Description</b>	Class-of-service drop profile.
<b>Contents</b>	<p>&lt;code-point-type&gt;—Class-of-service code point type.</p> <p>&lt;rewrite-map&gt;—No documentation is available yet.</p> <p>&lt;rewrite-name&gt;—Class-of-service rewrite rule name.</p> <p>&lt;table-index&gt;—Table index.</p>

**<rewrite-map>**

<b>Usage</b>	<pre> &lt;rewrite&gt;   &lt;rewrite-map&gt;     &lt;rewrite-map-item&gt;...&lt;/rewrite-map-item&gt;   &lt;/rewrite-map&gt; &lt;/rewrite&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>*rw-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.

**<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/9.3R1/junos-database-replication>. To review the DTD for the tags, see “DTD for Database Replication Response Tags” on page 1701.

### **<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/9.3R1/junos-dlswd>. To review the DTD for the tags, see “DTD for Data Link Switching Response Tags” on page 1703.

### <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 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/9.3R1/junos-dhcp>. To review the DTD for the tags, see “DTD for DHCP Response Tags” on page 1709.

### **<client-identifier>**

<b>Usage</b>	<pre> &lt;dhcp-binding&gt;   &lt;client-identifier&gt;     &lt;hex-data&gt;<i>hex-data</i>&lt;/hex-data&gt;     &lt;hex-data-line&gt;<i>hex-data-line</i>&lt;/hex-data-line&gt;     &lt;printable-data-line&gt;<i>printable-data-line</i>&lt;/printable-data-line&gt;   &lt;/client-identifier&gt; &lt;/dhcp-binding&gt; </pre>
<b>Description</b>	Identifier that the DHCP client provided for itself when it requested an address assignment.
<b>Contents</b>	<p>&lt;hex-data&gt;—Data in hexadecimal format.</p> <p>&lt;hex-data-line&gt;—Line of data in hexadecimal format.</p> <p>&lt;printable-data-line&gt;—Line of data in printable format.</p>

**<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>**  
         <detec-tion-time>*detec-tion-time*</detec-tion-time>  
         <detec-tion-method>*detec-tion-method*</detec-tion-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.
- <detec-tion-method>—Method used to detect the conflict.
- <detec-tion-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>**

&lt;/rpc-reply&gt;

**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.

### **`<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 DHCP 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.

## 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/9.3R1/junos-dhcp-relay`. To review the DTD for the tags, see “DTD for DHCP Relay Response Tags” on page 1713.

### <binding-summary>

<b>Usage</b>	<pre> &lt;dhcp-relay-binding-information&gt;   &lt;binding-summary&gt;     &lt;binding-count&gt;binding-count&lt;/binding-count&gt;     &lt;bound-count&gt;bound-count&lt;/bound-count&gt;     &lt;selecting-count&gt;selecting-count&lt;/selecting-count&gt;     &lt;renewing-count&gt;renewing-count&lt;/renewing-count&gt;     &lt;rebinding-count&gt;rebinding-count&lt;/rebinding-count&gt;     &lt;restore-count&gt;restore-count&lt;/restore-count&gt;   &lt;/binding-summary&gt; &lt;/dhcp-relay-binding-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;binding-count&gt;—Number of bindings in this routing instance.</p> <p>&lt;bound-count&gt;—No documentation is available yet.</p> <p>&lt;rebinding-count&gt;—No documentation is available yet.</p> <p>&lt;renewing-count&gt;—No documentation is available yet.</p> <p>&lt;restore-count&gt;—Number of clients waiting to be restored.</p> <p>&lt;selecting-count&gt;—No documentation is available yet.</p>

### <client-identifier>

<b>Usage</b>	<pre> &lt;dhcp-binding&gt;   &lt;client-identifier&gt;     &lt;hex-data&gt;hex-data&lt;/hex-data&gt;     &lt;hex-data-line&gt;hex-data-line&lt;/hex-data-line&gt;     &lt;printable-data-line&gt;printable-data-line&lt;/printable-data-line&gt;   &lt;/client-identifier&gt; &lt;/dhcp-binding&gt; </pre>
<b>Description</b>	Identifier that the DHCP client provided for itself when it requested an address assignment.
<b>Contents</b>	<p>&lt;hex-data&gt;—Data in hexadecimal format.</p> <p>&lt;hex-data-line&gt;—Line of data in hexadecimal format.</p> <p>&lt;printable-data-line&gt;—Line of data in printable format.</p>

**<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>**

&lt;/rpc-reply&gt;

**Description** Statistics from the Dynamic Host Configuration Protocol Relay.**Contents** <dropped-packet-authentication>—Number of packets discarded because authentication failed.

&lt;dropped-packet-bad-hardware&gt;—Number of packets discarded by the DHCP relay because they specified an invalid hardware address.

&lt;dropped-packet-bad-opcode&gt;—Number of packets discarded by the DHCP relay because they specified an invalid operation code.

&lt;dropped-packet-bad-options&gt;—Number of packets discarded by the DHCP relay because they specified invalid options.

&lt;dropped-packet-dynamic-profile&gt;—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 DHCP relay received or sent the message.

<message-name>—Name of the message.

**<message-table>**

<b>Usage</b>	<pre>&lt;dhcp-relay-statistics-information&gt;   &lt;message-table&gt;     &lt;message-direction&gt;message-direction&lt;/message-direction&gt;     &lt;message&gt;...&lt;/message&gt;   &lt;/message-table&gt; &lt;/dhcp-relay-statistics-information&gt;</pre>
<b>Description</b>	Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP relay.
<b>Contents</b>	<p>&lt;message&gt;—Information about a DHCP or BOOTP message.</p> <p>&lt;message-direction&gt;—Indicator of whether the DHCP relay sent or received the messages.</p>



## 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/9.3R1/junos-dhcp-server`. To review the DTD for the tags, see “DTD for DHCP Server Response Tags” on page 1717.

### <binding-summary>

<b>Usage</b>	<pre> &lt;dhcp-server-binding-information&gt;   &lt;binding-summary&gt;     &lt;binding-count&gt;binding-count&lt;/binding-count&gt;     &lt;bound-count&gt;bound-count&lt;/bound-count&gt;     &lt;selecting-count&gt;selecting-count&lt;/selecting-count&gt;     &lt;renewing-count&gt;renewing-count&lt;/renewing-count&gt;     &lt;rebinding-count&gt;rebinding-count&lt;/rebinding-count&gt;     &lt;restore-count&gt;restore-count&lt;/restore-count&gt;   &lt;/binding-summary&gt; &lt;/dhcp-server-binding-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;binding-count&gt;—Number of bindings in this routing instance.</p> <p>&lt;bound-count&gt;—No documentation is available yet.</p> <p>&lt;rebinding-count&gt;—No documentation is available yet.</p> <p>&lt;renewing-count&gt;—No documentation is available yet.</p> <p>&lt;restore-count&gt;—Number of clients waiting to be restored.</p> <p>&lt;selecting-count&gt;—No documentation is available yet.</p>

### <client-identifier>

<b>Usage</b>	<pre> &lt;dhcp-binding&gt;   &lt;client-identifier&gt;     &lt;hex-data&gt;hex-data&lt;/hex-data&gt;     &lt;hex-data-line&gt;hex-data-line&lt;/hex-data-line&gt;     &lt;printable-data-line&gt;printable-data-line&lt;/printable-data-line&gt;   &lt;/client-identifier&gt; &lt;/dhcp-binding&gt; </pre>
<b>Description</b>	Identifier that the DHCP client provided for itself when it requested an address assignment.
<b>Contents</b>	<p>&lt;hex-data&gt;—Data in hexadecimal format.</p> <p>&lt;hex-data-line&gt;—Line of data in hexadecimal format.</p> <p>&lt;printable-data-line&gt;—Line of data in printable format.</p>

**<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>
  <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.

## **<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 DHCP server received or sent the message.

<message-name>—Name of the message.

**<message-table>**

<b>Usage</b>	<pre>&lt;dhcp-server-statistics-information&gt;   &lt;message-table&gt;     &lt;message-direction&gt;message-direction&lt;/message-direction&gt;     &lt;message&gt;...&lt;/message&gt;   &lt;/message-table&gt; &lt;/dhcp-server-statistics-information&gt;</pre>
<b>Description</b>	Information about one or more DHCP or bootstrap protocol (BOOTP) messages sent or received by the DHCP server.
<b>Contents</b>	<p>&lt;message&gt;—Information about a DHCP or BOOTP message.</p> <p>&lt;message-direction&gt;—Indicator of whether the DHCP server sent or received the messages.</p>

## 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/9.3R1/junos-dood>. To review the DTD for the tags, see “DTD for Dialer Response Tags” on page 1721.

### **<dial-string-list>**

<b>Usage</b>	<pre> &lt;dialer-interface&gt;   &lt;dial-string-list&gt;     &lt;dial-string&gt;dial-string&lt;/dial-string&gt;   &lt;/dial-string-list&gt; &lt;/dialer-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;dialer-pool-information&gt;   &lt;dialer-pool&gt;     &lt;pool-id&gt;pool-id&lt;/pool-id&gt;     &lt;pool-member-list&gt;...&lt;/pool-member-list&gt;   &lt;/dialer-pool&gt; &lt;/dialer-pool-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;pool-id&gt;—Pool identifier.</p> <p>&lt;pool-member-list&gt;—No documentation is available yet.</p>

**<dialer-pool-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;dialer-pool-information&gt;     &lt;dialer-pool&gt;...&lt;/dialer-pool&gt;   &lt;/dialer-pool-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<dialer-pool>—No documentation is available yet.

**<pool-member-list>**

<b>Usage</b>	<pre> &lt;dialer-pool&gt;   &lt;pool-member-list&gt;     &lt;dialer-info&gt;...&lt;/dialer-info&gt;     &lt;sub-info&gt;...&lt;/sub-info&gt;   &lt;/pool-member-list&gt; &lt;/dialer-pool&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;dialer-info&gt;—No documentation is available yet.</p> <p>&lt;sub-info&gt;—No documentation is available yet.</p>

**<sub-info>**

<b>Usage</b>	<pre> &lt;pool-member-list&gt;   &lt;sub-info&gt;     &lt;sub-interface-name&gt;sub-interface-name&lt;/sub-interface-name&gt;     &lt;sub-interface-flags&gt;sub-interface-flags&lt;/sub-interface-flags&gt;     &lt;pool-priority&gt;pool-priority&lt;/pool-priority&gt;   &lt;/sub-info&gt; &lt;/pool-member-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;pool-priority&gt;—Pool priority.</p> <p>&lt;sub-interface-flags&gt;—Flags indicating subordinate interface status.</p> <p>&lt;sub-interface-name&gt;—Subordinate interface name.</p>

**<sub-interface-list>**

<b>Usage</b>	<pre> &lt;dialer-interface&gt;   &lt;sub-interface-list&gt;     &lt;sub-interface-name&gt;sub-interface-name&lt;/sub-interface-name&gt;   &lt;/sub-interface-list&gt; &lt;/dialer-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<sub-interface-name>—Subordinate interface name.

**<watch-list>**

<b>Usage</b>	<pre> &lt;dialer-interface&gt;   &lt;watch-list&gt;     &lt;watch-route&gt;watch-route&lt;/watch-route&gt;   &lt;/watch-list&gt; &lt;/dialer-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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/9.3R1/junos-diameter>. To review the DTD for the tags, see “DTD for Diameter Response Tags” on page 1725.

### <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 received.

<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 summary.

**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 information 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 summary.  
 <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/9.3R1/junos-dynamic-configuration>. To review the DTD for the tags, see “DTD for Dynamic Configuration Response Tags” on page 1729.

**<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>  
         <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-session-id>—Radius accounting session ID.  
 <address-pool>—Address pool name.  
 <client-session-type>—Session type.  
 <dhcp-gi-address>—DHCP relay agent IP address.  
 <dynamic-configuration-info>—Dynamic configuration.  
 <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-system>—Logical system name.  
 <mac-address>—MAC 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.

### **<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.

**<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.

**<results>**

<b>Usage</b>	<pre> &lt;dynamic-configuration-information&gt;   &lt;results&gt;     &lt;action&gt;action&lt;/action&gt;     &lt;session-type&gt;session-type&lt;/session-type&gt;     &lt;session-id&gt;session-id&lt;/session-id&gt;     &lt;success/&gt;     &lt;failure&gt;failure&lt;/failure&gt;   &lt;/results&gt; &lt;/dynamic-configuration-information&gt; </pre>
<b>Description</b>	Result for dynamic configuration operation command.
<b>Contents</b>	<p>&lt;action&gt;—Dynamic configuration action.</p> <p>&lt;failure&gt;—Dynamic configuration operation failed.</p> <p>&lt;session-id&gt;—Session ID.</p> <p>&lt;session-type&gt;—Session type if provide in command request.</p> <p>&lt;success&gt;—Dynamic configuration operation succeed.</p>

**<service-session-info>**

<b>Usage</b>	<pre> &lt;dynamic-configuration-information&gt;   &lt;service-session-info&gt;     &lt;session-id&gt;session-id&lt;/session-id&gt;     &lt;start-time&gt;start-time&lt;/start-time&gt;     &lt;service-name&gt;service-name&lt;/service-name&gt;     &lt;agg-type&gt;agg-type&lt;/agg-type&gt;     &lt;state&gt;state&lt;/state&gt;     &lt;dynamic-configuration-info&gt;...&lt;/dynamic-configuration-info&gt;   &lt;/service-session-info&gt; &lt;/dynamic-configuration-information&gt; </pre>
<b>Description</b>	Service session information.
<b>Contents</b>	<p>&lt;agg-type&gt;—Multi-client IFL.</p> <p>&lt;dynamic-configuration-info&gt;—Dynamic configuration.</p> <p>&lt;service-name&gt;—Service name.</p> <p>&lt;session-id&gt;—Session ID.</p> <p>&lt;start-time&gt;—Time when the client logged in, in the format YY-MM-DD hh:mm:ss.</p> <p>&lt;state&gt;—State.</p>

**<session-ids>**

<b>Usage</b>	<pre>&lt;dynamic-configuration-information   client-session-info&gt;   &lt;session-ids&gt;     &lt;session-id&gt;session-id&lt;/session-id&gt;   &lt;/session-ids&gt; &lt;/dynamic-configuration-information   client-session-info&gt;</pre>
<b>Description</b>	Session IDs.
<b>Contents</b>	<session-id>—Session ID.

**<shm-ipc-statistics>**

**Usage** <rpc-reply>  
     **<shm-ipc-statistics>**  
         <producer-name>*producer-name*</producer-name>  
         <producer-number>*producer-number*</producer-number>  
         <consumer-name>*consumer-name*</consumer-name>  
         <backpressure>*backpressure*</backpressure>  
         <telluser>*telluser*</telluser>  
         <telluser\_failed>*telluser\_failed*</telluser\_failed>  
         <malformed-msgs>*malformed-msgs*</malformed-msgs>  
         <failure-reason>*failure-reason*</failure-reason>  
         <blank-err-str-name>*blank-err-str-name*</blank-err-str-name>  
         <blank-err-string>*blank-err-string*</blank-err-string>  
         <blank-err-int-name>*blank-err-int-name*</blank-err-int-name>  
         <blank-err-int>*blank-err-int*</blank-err-int>  
     **</shm-ipc-statistics>**  
 </rpc-reply>

**Description** No documentation is available yet.

**Contents** <backpressure>—Backpressure.

<blank-err-int>—Reusable integer field.

<blank-err-int-name>—Reusable integer field title.

<blank-err-str-name>—Reusable string field title.

<blank-err-string>—Reusable string field.

<consumer-name>—Consumer Name.

<failure-reason>—Problem collecting shm-ipc data.

<malformed-msgs>—Malformed msgs.

<producer-name>—Producer Name.

<producer-number>—Producer ID.

<telluser>—User told.

<telluser\_failed>—User told failed.

## 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/9.3R1/junos-dfc>. To review the DTD for the tags, see “DTD for Dynamic Flow Capture Response Tags” on page 1733.

### <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>inp-pac-con-pro-not-udp
</input-packets-control-protocol-not-udp>
<input-packets-control-protocol-invalid-dest-ip>inp-pac-con-pro-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>inp-pac-con-pro-drop-no-memory
</input-packets-control-protocol-drop-no-memory>
<input-packets-control-protocol-drop-unauthorized>inp-pac-con-pro-drp-unauth
</input-packets-control-protocol-drop-unauthorized>
<input-packets-control-protocol-drop-bad-req>in-pa-co-pr-drp-bad-req
</input-packets-control-protocol-drop-bad-req>
<input-packets-control-protocol-drop-unknown-control-source>i-p-c-p-d-u-c-sr
</input-packets-control-protocol-drop-unknown-control-source>
<input-packets-control-protocol-drop-not-dtcp>in-packets-control-protocol-drop-not-dtcp
</input-packets-control-protocol-drop-not-dtcp>
<input-packets-control-protocol-drop-bad-cmdline>in-pa-cn-pr-drp-bad-cmdline
</input-packets-control-protocol-drop-bad-cmdline>
<input-packets-control-protocol-drop-bandwidth-exceeded>inp-pac-con-pro-drop-bw-ex
</input-packets-control-protocol-drop-bandwidth-exceeded>
<input-packets-control-protocol-drop-rate-bandwidth-exceeded>i-p-c-p-d-r-b-ex
</input-packets-control-protocol-drop-rate-bandwidth-exceeded>
<input-packets-drop-unknown>input-packets-drop-uk
</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>i-p-d-r-bw-ex
</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>ou-pa-dr-ca-da

```

```

        </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>fl-ma-cr-ma-fl
        </flowstats-maximum-criteria-matching-flow>
    <flowstats-purged-flows>fl-pu-fl</flowstats-purged-flows>
    <flowstats-maximum-filter-matching-packet>flowstats-max-filter-mg-pkt
        </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/9.3R1/junos-filter>. To review the DTD for the tags, see “DTD for Firewall Filter Response Tags” on page 1739.

### <counter>

<b>Usage</b>	<pre>&lt;filter-information   firewall-prefix-action-information&gt;   &lt;counter&gt;     &lt;counter-name&gt;counter-name&lt;/counter-name&gt;     &lt;byte-count&gt;byte-count&lt;/byte-count&gt;     &lt;packet-count&gt;packet-count&lt;/packet-count&gt;   &lt;/counter&gt; &lt;/filter-information   firewall-prefix-action-information&gt;</pre>
<b>Description</b>	Counter information.
<b>Contents</b>	<pre>&lt;byte-count&gt;—Bytes counted.  &lt;counter-name&gt;—Counter name.  &lt;packet-count&gt;—Packets counted.</pre>

### <filter-information>

<b>Usage</b>	<pre>&lt;firewall-information&gt;   &lt;filter-information&gt;     &lt;filter-name&gt;filter-name&lt;/filter-name&gt;     &lt;counter&gt;...&lt;/counter&gt;     &lt;policer&gt;...&lt;/policer&gt;   &lt;/filter-information&gt; &lt;/firewall-information&gt;</pre>
<b>Description</b>	Details of a firewall filter.
<b>Contents</b>	<pre>&lt;counter&gt;—Counter information.  &lt;filter-name&gt;—Name of filter.  &lt;policer&gt;—Policer information.</pre>

**<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>**

<b>Usage</b>	<pre> &lt;firewall-log-information&gt;   &lt;log-information&gt;     &lt;time&gt;time&lt;/time&gt;     &lt;filter-name&gt;filter-name&lt;/filter-name&gt;     &lt;action-name&gt;action-name&lt;/action-name&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;protocol-name&gt;protocol-name&lt;/protocol-name&gt;     &lt;source-address&gt;source-address&lt;/source-address&gt;     &lt;destination-address&gt;destination-address&lt;/destination-address&gt;     &lt;packet-length&gt;packet-length&lt;/packet-length&gt;     &lt;icmp-type&gt;icmp-type&lt;/icmp-type&gt;     &lt;icmp-code&gt;icmp-code&lt;/icmp-code&gt;   &lt;/log-information&gt; &lt;/firewall-log-information&gt; </pre>
<b>Description</b>	Details of a single firewall log entry.
<b>Contents</b>	<p>&lt;action-name&gt;—Filter action.</p> <p>&lt;destination-address&gt;—Destination address.</p> <p>&lt;filter-name&gt;—Name of filter.</p> <p>&lt;icmp-code&gt;—ICMP code.</p> <p>&lt;icmp-type&gt;—ICMP type.</p> <p>&lt;interface-name&gt;—Name of interface.</p> <p>&lt;packet-length&gt;—Packet length.</p> <p>&lt;protocol-name&gt;—Name of protocol.</p> <p>&lt;source-address&gt;—Source address.</p> <p>&lt;time&gt;—Time of log.</p>

**<policer>**

<b>Usage</b>	<pre> &lt;filter-information   firewall-prefix-action-information&gt;   &lt;policer&gt;     &lt;policer-name&gt;policer-name&lt;/policer-name&gt;     &lt;packet-count&gt;packet-count&lt;/packet-count&gt;   &lt;/policer&gt; &lt;/filter-information   firewall-prefix-action-information&gt; </pre>
<b>Description</b>	Policer information.
<b>Contents</b>	<p>&lt;packet-count&gt;—Packets counted.</p> <p>&lt;policer-name&gt;—Name of this policer.</p>



## Summary of Graceful Switchover Response Tags

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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/9.3R1/junos-switchover>. To review the DTD for the tags, see “DTD for Graceful Switchover Response Tags” on page 1741.

### <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 Interface Metadata Response Tags

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This section lists JUNOS XML tags that contain operational information about the interface metadata. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-interface-metadata>. To review the DTD for the tags, see “DTD for Interface Metadata Reponse Tags” on page 1801.

### <channels>

<b>Usage</b>	<pre>&lt;interface&gt;   &lt;channels&gt;     &lt;subunit&gt;subunit&lt;/subunit&gt;   &lt;/channels&gt; &lt;/interface&gt;</pre>
<b>Description</b>	Channelized interface information.
<b>Contents</b>	<subunit>—Number of subunits for channelized interface.

### <interface>

<b>Usage</b>	<pre>&lt;interface-metadata-information&gt;   &lt;interface&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;long&gt;long&lt;/long&gt;     &lt;pics-per-slot&gt;pics-per-slot&lt;/pics-per-slot&gt;     &lt;ports-per-slot&gt;ports-per-slot&lt;/ports-per-slot&gt;     &lt;max-mtu&gt;max-mtu&lt;/max-mtu&gt;     &lt;flag&gt;flag&lt;/flag&gt;     &lt;channels&gt;...&lt;/channels&gt;     &lt;max-channelization&gt;max-channelization&lt;/max-channelization&gt;     &lt;product&gt;product&lt;/product&gt;   &lt;/interface&gt; &lt;/interface-metadata-information&gt;</pre>
<b>Description</b>	Information about an interface.
<b>Contents</b>	<p>&lt;channels&gt;—Channelized interface information.</p> <p>&lt;flag&gt;—Flags for this interface type.</p> <p>&lt;long&gt;—Product number.</p> <p>&lt;max-channelization&gt;—Maximum level of channelization.</p> <p>&lt;max-mtu&gt;—Maximum mtu.</p> <p>&lt;name&gt;—Product model number.</p> <p>&lt;pics-per-slot&gt;—Number of pics allowed per nic.</p> <p>&lt;ports-per-slot&gt;—Number of ports per pic.</p> <p>&lt;product&gt;—Product(s) this interface is supported on.</p>

**<interface-metadata-information>**

**Usage**   <rpc-reply>  
          **<interface-metadata-information>**  
          <interface>...</interface>  
          **</interface-metadata-information>**  
          </rpc-reply>

**Description**   Information on one or more interfaces.

**Contents**   <interface>—Information about an interface.

## Summary of Interface Response Tags

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This section lists JUNOS XML tags that contain operational information about routing platform interfaces. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-interface>. To review the DTD for the tags, see “DTD for Interface Response Tags” on page 1743.

### <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-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.

**<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>**  
         <iff-none/>  
         <iff-primary/>  
         <iff-redirects/>  
         <iff-no-redirects/>  
         <iff-hard-down/>  
         <iff-down/>  
         <iff-up/>  
         <iff-func1/>  
         <iff-func2/>  
         <iff-is-primary/>  
         <iff-recv-options/>  
         <iff-recv-ttl-exceeded/>  
         <iff-dst-class-usage/>  
         <iff-src-class-input/>  
         <iff-src-class-output/>  
         <iff-mtu-user-conf/>  
         <iff-mac-validate-strict/>  
         <iff-mac-validate-loose/>  
         <iff-rpf-check/>  
         <iff-rpf-loose-mode/>  
         <iff-sample-input/>  
         <iff-sample-output/>  
         <iff-no-asynch-notification/>  
         <iff-negotiate-address/>  
         <iff-port-mode-trunk/>  
         <iff-mtu-protocol-adj/>  
         <iff-unnumbered/>  
         <iff-tcc-mpls/>  
         <iff-tcc-inet/>  
         <iff-tcc-inet6/>  
         <iff-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.

<iff-down>—Protocol is inactive.

<iff-dst-class-usage>—Interface family is configured for DCU.

<iff-func1>—No documentation is available yet.

<iff-func2>—No documentation is available yet.

<iff-hard-down>—Protocol failed to negotiate correctly.

<iff-is-primary>—Interface is the primary one for the protocol.

<iff-mac-validate-loose>—Interface family is configured for loose mac-validate.

<iff-mac-validate-strict>—Interface family is configured for strict mac-validate.

<iff-mtu-protocol-adj>—MTU is adjusted by protocol.

<iff-mtu-user-conf>—Protocol MTU has been changed by configuration.

<iff-negotiate-address>—Get local address using IPCP address negotiation.

<iff-no-asynch-notification>—Do not send asynchronous notification upon link failure.

<iff-no-redirects>—Protocol redirects are disabled.

<iff-none>—No documentation is available yet.

<iff-port-mode-trunk>—Port mode is trunk.

<iff-primary>—Interface can be considered for selection as the primary family address.

<iff-recv-options>—Receive nonlocal options packets.

<iff-recv-ttl-exceeded>—Receive nonlocal TTL-exceeded packets.

<iff-redirects>—No documentation is available yet.

<iff-rpf-check>—Interface family is configured for unicast RPF.

<iff-rpf-loose-mode>—Interface family is configured for uRPF loose mode.

<iff-sample-input>—Interface family is configured to sample input packets.

<iff-sample-output>—Interface family is configured to sample output packets.

<iff-src-class-input>—Interface family is configured for SCU input.

<iff-src-class-output>—Interface family is configured for SCU output.

<iff-tcc-inet>—IP version 4 over translational cross-connect.

<iff-tcc-inet6>—IP version 6 over translational cross-connect.

<iff-tcc-iso>—International Organization for Standardization over translational cross-connect.

<iff-tcc-mpls>—Multiprotocol Label Switching over translational cross-connect.

<iff-unnumbered>—Unnumbered.

<iff-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-address*  
           </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>

<b>Usage</b>	<pre>&lt;physical-interface&gt;   &lt;ber-threshold&gt;     &lt;ber-sd&gt;ber-sd&lt;/ber-sd&gt;     &lt;ber-sf&gt;ber-sf&lt;/ber-sf&gt;   &lt;/ber-threshold&gt; &lt;/physical-interface&gt;</pre>
<b>Description</b>	Bit error rate (BER) threshold for SONET interface.
<b>Contents</b>	<p>&lt;ber-sd&gt;—BER-SD threshold.</p> <p>&lt;ber-sf&gt;—BER-SF threshold.</p>

### <bundle>

<b>Usage</b>	<pre>&lt;multilink-traffic-statistics   mlfr-uni-nni-traffic-statistics&gt;   &lt;bundle&gt;     &lt;multilink-frames&gt;...&lt;/multilink-frames&gt;     &lt;network-frames&gt;...&lt;/network-frames&gt;   &lt;/bundle&gt; &lt;/multilink-traffic-statistics   mlfr-uni-nni-traffic-statistics&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;multilink-frames&gt;—Link-pic bound frame statistics for multilink bundles and classes.</p> <p>&lt;network-frames&gt;—Internet/RE bound frame statistics for multilink bundles and classes.</p>

### <bundle-detail>

<b>Usage</b>	<pre>&lt;multilink-detail-statistics&gt;   &lt;bundle-detail&gt;     &lt;fragments&gt;...&lt;/fragments&gt;     &lt;non-fragments&gt;...&lt;/non-fragments&gt;     &lt;lfi&gt;...&lt;/lfi&gt;   &lt;/bundle-detail&gt; &lt;/multilink-detail-statistics&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fragments&gt;—Fragment statistics for multilink bundles and classes.</p> <p>&lt;lfi&gt;—LFI frame statistics for multilink bundles and classes.</p> <p>&lt;non-fragments&gt;—Non-fragment statistics for multilink bundles and classes.</p>



**<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-period*  
             </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>**

<b>Usage</b>	<pre> &lt;class   class-detail&gt;   &lt;class-info&gt;     &lt;multilink-class-id&gt;multilink-class-id&lt;/multilink-class-id&gt;   &lt;/class-info&gt; &lt;/class   class-detail&gt; </pre>
<b>Description</b>	Multilink class information.
<b>Contents</b>	<multilink-class-id>—Multilink class ID.

**<clocking-mode>**

<b>Usage</b>	<pre> &lt;serial-information&gt;   &lt;clocking-mode&gt;     &lt;clock-mode&gt;clock-mode&lt;/clock-mode&gt;   &lt;/clocking-mode&gt; &lt;/serial-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<clock-mode>—No documentation is available yet.

**<clocking-rate>**

<b>Usage</b>	<pre> &lt;serial-information&gt;   &lt;clocking-rate&gt;     &lt;clock-rate&gt;clock-rate&lt;/clock-rate&gt;   &lt;/clocking-rate&gt; &lt;/serial-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<clock-rate>—Interface clock rate.

**<controller>**

<b>Usage</b>	<pre> &lt;interface-information&gt;   &lt;controller&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;admin-status&gt;admin-status&lt;/admin-status&gt;     &lt;oper-status&gt;oper-status&lt;/oper-status&gt;   &lt;/controller&gt; &lt;/interface-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;admin-status&gt;—Desired state of the interface.</p> <p>&lt;name&gt;—Name of this item.</p> <p>&lt;oper-status&gt;—Current operational state of the interface.</p>

**<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>**

<b>Usage</b>	<pre> &lt;cos-stream-information&gt;   &lt;cos-queue-configuration&gt;     &lt;cos-queue-number&gt;cos-queue-number&lt;/cos-queue-number&gt;     &lt;cos-queue-forwarding-class&gt;cos-queue-forwarding-class       &lt;/cos-queue-forwarding-class&gt;     &lt;cos-queue-bandwidth&gt;cos-queue-bandwidth&lt;/cos-queue-bandwidth&gt;     &lt;cos-queue-bandwidth-remainder&gt;cos-queue-bandwidth-remainder       &lt;/cos-queue-bandwidth-remainder&gt;     &lt;cos-queue-bandwidth-bps&gt;cos-queue-bandwidth-bps&lt;/cos-queue-bandwidth-bps&gt;     &lt;cos-queue-bandwidth-bps-remainder&gt;cos-queue-bandwidth-bps-remainder       &lt;/cos-queue-bandwidth-bps-remainder&gt;     &lt;cos-queue-buffer&gt;cos-queue-buffer&lt;/cos-queue-buffer&gt;     &lt;cos-queue-buffer-remainder&gt;cos-queue-buffer-remainder       &lt;/cos-queue-buffer-remainder&gt;     &lt;cos-queue-buffer-bytes&gt;cos-queue-buffer-bytes&lt;/cos-queue-buffer-bytes&gt;     &lt;cos-queue-priority&gt;cos-queue-priority&lt;/cos-queue-priority&gt;     &lt;cos-queue-limit&gt;cos-queue-limit&lt;/cos-queue-limit&gt;   &lt;/cos-queue-configuration&gt; &lt;/cos-stream-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre> &lt;cos-queue-bandwidth&gt;—No documentation is available yet.  &lt;cos-queue-bandwidth-bps&gt;—No documentation is available yet.  &lt;cos-queue-bandwidth-bps-remainder&gt;—No documentation is available yet.  &lt;cos-queue-bandwidth-remainder&gt;—No documentation is available yet.  &lt;cos-queue-buffer&gt;—No documentation is available yet.  &lt;cos-queue-buffer-bytes&gt;—No documentation is available yet.  &lt;cos-queue-buffer-remainder&gt;—No documentation is available yet.  &lt;cos-queue-forwarding-class&gt;—No documentation is available yet.  &lt;cos-queue-limit&gt;—No documentation is available yet.  &lt;cos-queue-number&gt;—Queue number.  &lt;cos-queue-priority&gt;—No documentation is available yet. </pre>

**<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>**

<b>Usage</b>	<pre> &lt;logical-interface&gt;   &lt;dialer-information&gt;     &lt;dialer-interface&gt;...&lt;/dialer-interface&gt;     &lt;dialer-time-to-disconnect&gt;<i>dialer-time-to-disconnect</i>     &lt;/dialer-time-to-disconnect&gt;   &lt;/dialer-information&gt; &lt;/logical-interface&gt; </pre>
<b>Description</b>	Dialer information.
<b>Contents</b>	<p>&lt;dialer-interface&gt;—No documentation is available yet.</p> <p>&lt;dialer-time-to-disconnect&gt;—Time for dialer to disconnect due to idle timeout.</p>

**<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>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;es-ifd-stats&gt;     &lt;total-anti-replay-count&gt;total-anti-replay-count&lt;/total-anti-replay-count&gt;     &lt;total-authentication-failure-count&gt;total-authentication-failure-count       &lt;/total-authentication-failure-count&gt;   &lt;/es-ifd-stats&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	ES PIC statistics.
<b>Contents</b>	<p>&lt;total-anti-replay-count&gt;—Number of antireplay failures.</p> <p>&lt;total-authentication-failure-count&gt;—Number of authentication failures.</p>

**<ether-policer-list>**

<b>Usage</b>	<pre> &lt;mac-policer-information&gt;   &lt;ether-policer-list&gt;     &lt;ether-policer-record&gt;...&lt;/ether-policer-record&gt;   &lt;/ether-policer-list&gt; &lt;/mac-policer-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<ether-policer-record>—No documentation is available yet.

**<ether-policer-record>**

<b>Usage</b>	<pre> &lt;ether-policer-list&gt;   &lt;ether-policer-record&gt;     &lt;policer-type&gt;policer-type&lt;/policer-type&gt;     &lt;out-of-spec-bytes&gt;out-of-spec-bytes&lt;/out-of-spec-bytes&gt;     &lt;out-of-spec-frames&gt;out-of-spec-frames&lt;/out-of-spec-frames&gt;   &lt;/ether-policer-record&gt; &lt;/ether-policer-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;out-of-spec-bytes&gt;—No documentation is available yet.</p> <p>&lt;out-of-spec-frames&gt;—No documentation is available yet.</p> <p>&lt;policer-type&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;if-device-flags&gt;     &lt;ifdf-none/&gt;     &lt;ifdf-present/&gt;     &lt;ifdf-running/&gt;     &lt;ifdf-duplex/&gt;     &lt;ifdf-down/&gt;     &lt;ifdf-no-carrier/&gt;     &lt;ifdf-error1/&gt;     &lt;ifdf-error2/&gt;     &lt;ifdf-no-multicast/&gt;     &lt;ifdf-loopback/&gt;     &lt;ifdf-quench/&gt;     &lt;ifdf-recv-all-multicasts/&gt;     &lt;ifdf-promiscuous/&gt;     &lt;ifdf-link-layer-down/&gt;     &lt;ifdf-loop-detected/&gt;     &lt;ifdf-pfe-gone/&gt;     &lt;generic-value&gt;generic-value&lt;/generic-value&gt;   &lt;/if-device-flags&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;generic-value&gt;—Hexadecimal value of unknown flag bits.</p> <p>&lt;ifdf-down&gt;—Device has been administratively disabled.</p> <p>&lt;ifdf-duplex&gt;—Device will hear its own transmissions.</p> <p>&lt;ifdf-error1&gt;—No documentation is available yet.</p> <p>&lt;ifdf-error2&gt;—No documentation is available yet.</p> <p>&lt;ifdf-link-layer-down&gt;—Link-layer protocol failed to connect successfully with the remote end point.</p> <p>&lt;ifdf-loop-detected&gt;—Link layer has received frames that it sent and suspects a physical loopback.</p> <p>&lt;ifdf-loopback&gt;—Device is in physical loopback.</p> <p>&lt;ifdf-no-carrier&gt;—Where the media supports carrier recognition, this indicates that no carrier is currently seen.</p> <p>&lt;ifdf-no-multicast&gt;—Device does not support multicast traffic.</p> <p>&lt;ifdf-none&gt;—No documentation is available yet.</p> <p>&lt;ifdf-pfe-gone&gt;—No documentation is available yet.</p> <p>&lt;ifdf-present&gt;—Device is physically present and recognized.</p>

<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>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;if-media-flags&gt;     &lt;ifmf-none/&gt;     &lt;ifmf-autoselect/&gt;     &lt;ifmf-scheduler/&gt;     &lt;ifmf-shared-scheduler/&gt;     &lt;ifmf-keepalives/&gt;     &lt;ifmf-no-keepalives/&gt;     &lt;ifmf-give-up/&gt;     &lt;ifmf-loose-lcp/&gt;     &lt;ifmf-loose-ncp/&gt;     &lt;ifmf-ppp-acfc/&gt;     &lt;ifmf-ppp-pfc/&gt;     &lt;ifmf-loose-lmi/&gt;     &lt;ifmf-dce/&gt;     &lt;ifmf-dte/&gt;     &lt;generic-value&gt;generic-value&lt;/generic-value&gt;   &lt;/if-media-flags&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;generic-value&gt;—Hexadecimal value of unknown flag bits.</p> <p>&lt;ifmf-autoselect&gt;—No documentation is available yet.</p> <p>&lt;ifmf-dce&gt;—No documentation is available yet.</p> <p>&lt;ifmf-dte&gt;—No documentation is available yet.</p> <p>&lt;ifmf-give-up&gt;—Link protocol will not continue to retry to connect after repeated failures.</p> <p>&lt;ifmf-keepalives&gt;—Link protocol keepalives are enabled.</p> <p>&lt;ifmf-loose-lcp&gt;—PPP will not use LCP to indicate whether the link protocol is up.</p> <p>&lt;ifmf-loose-lmi&gt;—Frame Relay will not use LMI to indicate whether the link protocol is up.</p> <p>&lt;ifmf-loose-ncp&gt;—PPP will not use NCP to indicate whether the device is up.</p> <p>&lt;ifmf-no-keepalives&gt;—Link protocol keepalives are disabled.</p> <p>&lt;ifmf-none&gt;—No documentation is available yet.</p> <p>&lt;ifmf-ppp-acfc&gt;—PPP negotiates Address/Control field compression.</p> <p>&lt;ifmf-ppp-pfc&gt;—PPP negotiates Protocol field compression.</p> <p>&lt;ifmf-scheduler&gt;—No documentation is available yet.</p> <p>&lt;ifmf-shared-scheduler&gt;—No documentation is available yet.</p>

**<ifa-flags>**

<b>Usage</b>	<pre> &lt;interface-address&gt;   &lt;ifa-flags&gt;     &lt;ifaf-none/&gt;     &lt;ifaf-primary/&gt;     &lt;ifaf-preferred/&gt;     &lt;ifaf-master-only/&gt;     &lt;ifaf-down/&gt;     &lt;ifaf-kernel/&gt;     &lt;ifaf-current-default/&gt;     &lt;ifaf-current-preferred/&gt;     &lt;ifaf-current-primary/&gt;     &lt;ifaf-duplicate/&gt;     &lt;ifaf-webauth-http/&gt;     &lt;generic-value&gt;generic-value&lt;/generic-value&gt;   &lt;/ifa-flags&gt; &lt;/interface-address&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;generic-value&gt;—Hexadecimal value of unknown flag bits.</p> <p>&lt;ifaf-current-default&gt;—SNMP, ping, traceroute, and other network utilities source this address (it is the router's default address).</p> <p>&lt;ifaf-current-preferred&gt;—Packets sourced by the local router to destinations on the subnet use this address as the default local address.</p> <p>&lt;ifaf-current-primary&gt;—Broadcast and multicast packets sourced locally and sent out the interface use this address by default as the local address.</p> <p>&lt;ifaf-down&gt;—Software noticed that the link was down and changed the interface routes to be nonforwarding.</p> <p>&lt;ifaf-duplicate&gt;—This address appears on another node attached to this interface.</p> <p>&lt;ifaf-kernel&gt;—The kernel created this address after negotiating the address using IPCP.</p> <p>&lt;ifaf-master-only&gt;—Address to use as the active management-only interface of the master Routing Engine.</p> <p>&lt;ifaf-none&gt;—No documentation is available yet.</p> <p>&lt;ifaf-preferred&gt;—This address is a candidate to become the preferred address.</p> <p>&lt;ifaf-primary&gt;—This address is a candidate to become the primary address.</p> <p>&lt;ifaf-webauth-http&gt;—Web-based firewall user authentication via HTTP is enabled for this address.</p>



**<ifvc-flags>**

<b>Usage</b>	<pre> &lt;virtual-circuit-information&gt;   &lt;ifvc-flags&gt;     &lt;ifvc-down/&gt;     &lt;ifvc-none/&gt;     &lt;ifvc-active/&gt;     &lt;ifvc-closed/&gt;     &lt;ifvc-inverse-arp/&gt;     &lt;ifvc-ilmi/&gt;     &lt;ifvc-oam/&gt;     &lt;ifvc-shaping/&gt;     &lt;ifvc-passiveoam/&gt;     &lt;ifvc-multicast/&gt;     &lt;ifvc-ccc-down/&gt;     &lt;ifvc-configured/&gt;     &lt;ifvc-unconfigured/&gt;     &lt;generic-value&gt;generic-value&lt;/generic-value&gt;   &lt;/ifvc-flags&gt; &lt;/virtual-circuit-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;generic-value&gt;—Hexadecimal value of unknown flag bits.</p> <p>&lt;ifvc-active&gt;—No documentation is available yet.</p> <p>&lt;ifvc-ccc-down&gt;—No documentation is available yet.</p> <p>&lt;ifvc-closed&gt;—No documentation is available yet.</p> <p>&lt;ifvc-configured&gt;—DCE-end is configured.</p> <p>&lt;ifvc-down&gt;—No documentation is available yet.</p> <p>&lt;ifvc-ilmi&gt;—No documentation is available yet.</p> <p>&lt;ifvc-inverse-arp&gt;—No documentation is available yet.</p> <p>&lt;ifvc-multicast&gt;—No documentation is available yet.</p> <p>&lt;ifvc-none&gt;—No documentation is available yet.</p> <p>&lt;ifvc-oam&gt;—No documentation is available yet.</p> <p>&lt;ifvc-passiveoam&gt;—No documentation is available yet.</p> <p>&lt;ifvc-shaping&gt;—No documentation is available yet.</p> <p>&lt;ifvc-unconfigured&gt;—DCE-end is unconfigured.</p>

**<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.

**<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-runs>**—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>**<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/>
<generic-value>generic-value</generic-value>
</interface-alarms>
</active-alarms | active-defects>

```

**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.

<isdn-alarm-lof>—Loss of frame alarm.

<isdn-alarm-los>—Loss of signal 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-lrldi>—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-vrldi>—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-ift>*intf-cos-burst-size-for-ift*  
 </intf-cos-burst-size-for-ift>  
**</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-ift>—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>**

<b>Usage</b>	<pre> &lt;lag-traffic-statistics&gt;   &lt;lag-lacp-info&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;lacp-role&gt;lacp-role&lt;/lacp-role&gt;     &lt;lacp-sys-priority&gt;lacp-sys-priority&lt;/lacp-sys-priority&gt;     &lt;lacp-system-id&gt;lacp-system-id&lt;/lacp-system-id&gt;     &lt;lacp-port-priority&gt;lacp-port-priority&lt;/lacp-port-priority&gt;     &lt;lacp-port-number&gt;lacp-port-number&lt;/lacp-port-number&gt;     &lt;lacp-port-key&gt;lacp-port-key&lt;/lacp-port-key&gt;   &lt;/lag-lacp-info&gt; &lt;/lag-traffic-statistics&gt; </pre>
<b>Description</b>	LACP information.
<b>Contents</b>	<p>&lt;lacp-port-key&gt;—Operational key of the port.</p> <p>&lt;lacp-port-number&gt;—Port number.</p> <p>&lt;lacp-port-priority&gt;—Priority of the port.</p> <p>&lt;lacp-role&gt;—Whether it is an actor or partner.</p> <p>&lt;lacp-sys-priority&gt;—System priority.</p> <p>&lt;lacp-system-id&gt;—LACP system identifier.</p> <p>&lt;name&gt;—Name of this item.</p>

**<lag-lacp-protocol>**

<b>Usage</b>	<pre> &lt;lag-traffic-statistics&gt;   &lt;lag-lacp-protocol&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;lacp-receive-state&gt;lacp-receive-state&lt;/lacp-receive-state&gt;     &lt;lacp-transmit-state&gt;lacp-transmit-state&lt;/lacp-transmit-state&gt;     &lt;lacp-mux-state&gt;lacp-mux-state&lt;/lacp-mux-state&gt;   &lt;/lag-lacp-protocol&gt; &lt;/lag-traffic-statistics&gt; </pre>
<b>Description</b>	LACP protocol information.
<b>Contents</b>	<p>&lt;lacp-mux-state&gt;—State of the mux lacp machine.</p> <p>&lt;lacp-receive-state&gt;—State of the receive lacp machine.</p> <p>&lt;lacp-transmit-state&gt;—State of the transmit lacp machine.</p> <p>&lt;name&gt;—Name of this item.</p>

**<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>**

<b>Usage</b>	<pre> &lt;lag-traffic-statistics&gt;   &lt;lag-marker&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;marker-rx-packets&gt;marker-rx-packets&lt;/marker-rx-packets&gt;     &lt;marker-response-tx-packets&gt;marker-response-tx-packets       &lt;/marker-response-tx-packets&gt;     &lt;unknown-rx-packets&gt;unknown-rx-packets&lt;/unknown-rx-packets&gt;     &lt;illegal-rx-packets&gt;illegal-rx-packets&lt;/illegal-rx-packets&gt;   &lt;/lag-marker&gt; &lt;/lag-traffic-statistics&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;illegal-rx-packets&gt;—Number of ill formed packets received.</p> <p>&lt;marker-response-tx-packets&gt;—No documentation is available yet.</p> <p>&lt;marker-rx-packets&gt;—No documentation is available yet.</p> <p>&lt;name&gt;—Name of this item.</p> <p>&lt;unknown-rx-packets&gt;—Number of unknown type packets received.</p>

**<lag-traffic-statistics>**

<b>Usage</b>	<pre> &lt;logical-interface&gt;   &lt;lag-traffic-statistics&gt;     &lt;lag-bundle&gt;...&lt;/lag-bundle&gt;     &lt;lag-link&gt;...&lt;/lag-link&gt;     &lt;lag-marker&gt;...&lt;/lag-marker&gt;     &lt;lag-lacp-statistics&gt;...&lt;/lag-lacp-statistics&gt;     &lt;lag-lacp-info&gt;...&lt;/lag-lacp-info&gt;     &lt;lag-lacp-state&gt;...&lt;/lag-lacp-state&gt;     &lt;lag-lacp-protocol&gt;...&lt;/lag-lacp-protocol&gt;   &lt;/lag-traffic-statistics&gt; &lt;/logical-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;lag-bundle&gt;—No documentation is available yet.</p> <p>&lt;lag-lacp-info&gt;—LACP information.</p> <p>&lt;lag-lacp-protocol&gt;—LACP protocol information.</p> <p>&lt;lag-lacp-state&gt;—LACP protocol state information.</p> <p>&lt;lag-lacp-statistics&gt;—No documentation is available yet.</p> <p>&lt;lag-link&gt;—No documentation is available yet.</p> <p>&lt;lag-marker&gt;—No documentation is available yet.</p>

**<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.

**<Imi-dce-config>**

- Usage** <physical-interface>  
     **<Imi-dce-config>**  
         <Imi-type>*Imi-type*</Imi-type>  
         <Imi-n392dce>*Imi-n392dce*</Imi-n392dce>  
         <Imi-n393dce>*Imi-n393dce*</Imi-n393dce>  
         <Imi-t392dce>*Imi-t392dce*</Imi-t392dce>  
     **</Imi-dce-config>**  
 </physical-interface>
- Description** Configured LMI DCE setting on this interface.
- Contents** <Imi-n392dce>—No documentation is available yet.  
     <Imi-n393dce>—No documentation is available yet.  
     <Imi-t392dce>—No documentation is available yet.  
     <Imi-type>—No documentation is available yet.

**<Imi-dte-config>**

- Usage** <physical-interface>  
     **<Imi-dte-config>**  
         <Imi-type>*Imi-type*</Imi-type>  
         <Imi-n391dte>*Imi-n391dte*</Imi-n391dte>  
         <Imi-n392dte>*Imi-n392dte*</Imi-n392dte>  
         <Imi-n393dte>*Imi-n393dte*</Imi-n393dte>  
         <Imi-t391dte>*Imi-t391dte*</Imi-t391dte>  
     **</Imi-dte-config>**  
 </physical-interface>
- Description** Configured LMI DTE setting on this interface.
- Contents** <Imi-n391dte>—No documentation is available yet.  
     <Imi-n392dte>—No documentation is available yet.  
     <Imi-n393dte>—No documentation is available yet.  
     <Imi-t391dte>—No documentation is available yet.  
     <Imi-type>—No documentation is available yet.

**<Imi-statistics>**

**Usage** <physical-interface>  
**<Imi-statistics>**  
 <Imi-statistics-dte-descriptor>*Imi-statistics-dte-descriptor*  
 </Imi-statistics-dte-descriptor>  
 <Imi-enquiries-sent>*Imi-enquiries-sent*</Imi-enquiries-sent>  
 <Imi-full-enquiries-sent>*Imi-full-enquiries-sent*</Imi-full-enquiries-sent>  
 <Imi-enquiry-responses-received>*Imi-enquiry-responses-received*  
 </Imi-enquiry-responses-received>  
 <Imi-full-enquiry-responses-received>*Imi-full-enquiry-responses-received*  
 </Imi-full-enquiry-responses-received>  
 <Imi-statistics-dce-descriptor>*Imi-statistics-dce-descriptor*  
 </Imi-statistics-dce-descriptor>  
 <Imi-enquiries-received>*Imi-enquiries-received*</Imi-enquiries-received>  
 <Imi-full-enquiries-received>*Imi-full-enquiries-received*  
 </Imi-full-enquiries-received>  
 <Imi-enquiry-responses-sent>*Imi-enquiry-responses-sent*  
 </Imi-enquiry-responses-sent>  
 <Imi-full-enquiry-responses-sent>*Imi-full-enquiry-responses-sent*  
 </Imi-full-enquiry-responses-sent>  
 <Imi-statistics-common-descriptor>*Imi-statistics-common-descriptor*  
 </Imi-statistics-common-descriptor>  
 <Imi-unknown-messages-received>*Imi-unknown-messages-received*  
 </Imi-unknown-messages-received>  
 <Imi-asynchronous-updates-received>*Imi-asynchronous-updates-received*  
 </Imi-asynchronous-updates-received>  
 <Imi-out-of-sequence>*Imi-out-of-sequence*</Imi-out-of-sequence>  
 <Imi-keepalive-responses-timeout>*Imi-keepalive-responses-timeout*  
 </Imi-keepalive-responses-timeout>  
**</Imi-statistics>**  
 </physical-interface>

**Description** LMI statistics for an interface.

**Contents** <Imi-asynchronous-updates-received>—Number of ifstate change updates received.  
 <Imi-enquiries-received>—Number of enquiry packets received.  
 <Imi-enquiries-sent>—Number of enquiry packets sent.  
 <Imi-enquiry-responses-received>—Number of enquiry response packets received.  
 <Imi-enquiry-responses-sent>—Number of enquiry response packets sent.  
 <Imi-full-enquiries-received>—Number of full enquiry packets received.  
 <Imi-full-enquiries-sent>—Number of full enquiry packets sent.  
 <Imi-full-enquiry-responses-received>—Number of full enquiry packets received.  
 <Imi-full-enquiry-responses-sent>—Number of full enquiry response packets sent.  
 <Imi-keepalive-responses-timeout>—Number of times, the timer for keepalive packets expired.

<Imi-out-of-sequence>—Number of packets received in unexpected sequence.

<Imi-statistics-common-descriptor>—Statistics common to DTE and DCE.

<Imi-statistics-dce-descriptor>—DCE interface statistics.

<Imi-statistics-dte-descriptor>—DTE interface statistics.

<Imi-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-uplink-information>...</shared-uplink-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>
<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.
- <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-uplink-information>—Shared uplink 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-odu-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-odu-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.

**<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>
  <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-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>*seq-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>*seq-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>*seq-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.

**<nxd0-information>**

**Usage** <physical-interface>  
     **<nxd0-information>**  
         <interface-tx-queue>...</interface-tx-queue>  
     **</nxd0-information>**  
 </physical-interface>

**Description** No documentation is available yet.

**Contents** <interface-tx-queue>—No documentation is available yet.

**<oam-parameters>**

<b>Usage</b>	<virtual-path-information   virtual-circuit-information> <b>&lt;oam-parameters&gt;</b> <period> <i>period</i> </period> <up-count> <i>up-count</i> </up-count> <down-count> <i>down-count</i> </down-count> <b>&lt;/oam-parameters&gt;</b> </virtual-path-information   virtual-circuit-information>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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
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  </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>**

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<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
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</laser-rx-power-not-available>
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<laser-output-power-dbm>laser-output-power-dbm</laser-output-power-dbm>
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<module-voltage>module-voltage</module-voltage>
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<laser-bias-current-low-warn>laser-bias-current-low-warn
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<laser-tx-power-low-alarm>laser-tx-power-low-alarm</laser-tx-power-low-alarm>
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<laser-tx-power-low-warn>laser-tx-power-low-warn</laser-tx-power-low-warn>
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</module-temperature-low-alarm>
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<module-temperature-low-warn>module-temperature-low-warn
</module-temperature-low-warn>
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</laser-rx-power-high-alarm>

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<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>
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<laser-wavelength-alarm>laser-wavelength-alarm</laser-wavelength-alarm>
<laser-bias-current-alarm>la-bi-cu-alm</laser-bias-current-alarm>
<module-temperature-alarm>mod-temp-alarm</module-temperature-alarm>
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<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>mod-power-down-alarm</module-power-down-alarm>
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<tx-data-not-ready-alarm>tx-data-not-ready-alarm</tx-data-not-ready-alarm>
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<rx-loss-of-signal-alarm>rx-loss-of-signal-alarm</rx-loss-of-signal-alarm>
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    </laser-tx-power-low-alarm-threshold>
<laser-tx-power-high-warn-threshold>laser-tx-power-high-warn-threshold
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</laser-tx-power-low-warn-threshold>
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</laser-tx-power-high-alarm-threshold-dbm>
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<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>**  
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         <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>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;optics-properties&gt;     &lt;wavelength&gt;wavelength&lt;/wavelength&gt;     &lt;frequency&gt;frequency&lt;/frequency&gt;   &lt;/optics-properties&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	Optics properties.
<b>Contents</b>	<p>&lt;frequency&gt;—Frequency of optics in terahertz.</p> <p>&lt;wavelength&gt;—Wavelength of optics in nanometers.</p>

**<otn-errors>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;otn-errors&gt;     &lt;media-alarm&gt;...&lt;/media-alarm&gt;   &lt;/otn-errors&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<media-alarm>—No documentation is available yet.

**<otn-fec-statistics>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;otn-fec-statistics&gt;     &lt;fec-corrected-errors&gt;fec-corrected-errors&lt;/fec-corrected-errors&gt;     &lt;fec-corrected-error-ratio&gt;fec-corrected-error-ratio     &lt;/fec-corrected-error-ratio&gt;   &lt;/otn-fec-statistics&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fec-corrected-error-ratio&gt;—No documentation is available yet.</p> <p>&lt;fec-corrected-errors&gt;—No documentation is available yet.</p>

**<otn-oc-information>**

<b>Usage</b>	<pre> &lt;physical-interface&gt;   &lt;otn-oc-information&gt;     &lt;media-alarm&gt;...&lt;/media-alarm&gt;   &lt;/otn-oc-information&gt; &lt;/physical-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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-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>
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<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>
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</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-uplink-physical-interface>...</shared-uplink-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>
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<ncp-information>...</ncp-information>
<chap-state>chap-state</chap-state>
<pap-state>pap-state</pap-state>
<physical-information>physical-information</physical-information>
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<down-hold-time>down-hold-time</down-hold-time>
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    </hardware-physical-address>
<alternate-physical-address>alternate-physical-address
    </alternate-physical-address>
<interface-flapped>interface-flapped</interface-flapped>
<statistics-cleared>statistics-cleared</statistics-cleared>
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<preserve-interface-statistics>...</preserve-interface-statistics>
<traffic-statistics>...</traffic-statistics>
<ingress-traffic-statistics>...</ingress-traffic-statistics>
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<multilink-bundle-errors>...</multilink-bundle-errors>
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<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>
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    </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>
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<otn-tx-overhead>otn-tx-overhead</otn-tx-overhead>

```



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<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>
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<pfe-information>...</pfe-information>
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<ingress-queue-counters>...</ingress-queue-counters>
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<otn-otu-information>...</otn-otu-information>
<otn-odu-information>...</otn-odu-information>
<satop-information>...</satop-information>
<cesopsn-information>...</cesopsn-information>
<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.

<b>Contents</b>	<p><b>&lt;active-alarms&gt;</b>—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.</p> <p><b>&lt;active-defects&gt;</b>—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.</p> <p><b>&lt;admin-status&gt;</b>—Desired state of the interface.</p> <p><b>&lt;alternate-physical-address&gt;</b>—Alternate physical address for this interface.</p> <p><b>&lt;atm-e3-framing&gt;</b>—Type of framing.</p> <p><b>&lt;atm-encapsulation&gt;</b>—Type of ATM encapsulation.</p> <p><b>&lt;atm-information&gt;</b>—Operational information and statistics for ATM interfaces.</p> <p><b>&lt;atm-line-build-out&gt;</b>—Line buildout.</p> <p><b>&lt;ber-threshold&gt;</b>—Bit error rate (BER) threshold for SONET interface.</p> <p><b>&lt;bpdu-error&gt;</b>—No documentation is available yet.</p> <p><b>&lt;cds1-information&gt;</b>—No documentation is available yet.</p> <p><b>&lt;cesopsn-information&gt;</b>—No documentation is available yet.</p> <p><b>&lt;chap-state&gt;</b>—State of the Challenge Handshake Authentication Protocol.</p> <p><b>&lt;chassis-queue-counters&gt;</b>—Chassis queue counter statistics.</p> <p><b>&lt;clocking&gt;</b>—Reference clock source.</p> <p><b>&lt;cos-information&gt;</b>—Information about class-of-service configuration.</p> <p><b>&lt;crc&gt;</b>—Frame checksum on the interface (either 16 or 32).</p> <p><b>&lt;ct3-information&gt;</b>—No documentation is available yet.</p> <p><b>&lt;current-physical-address&gt;</b>—Configured physical address for this interface.</p> <p><b>&lt;description&gt;</b>—Description of this interface.</p> <p><b>&lt;down-hold-time&gt;</b>—Down hold-time for this interface (milliseconds).</p> <p><b>&lt;ds0-bert-information&gt;</b>—DS0 BERT configuration and statistics.</p> <p><b>&lt;ds1-bert-information&gt;</b>—DS1 BERT configuration and statistics.</p> <p><b>&lt;ds1-crc-alarm-threshold&gt;</b>—DS1 CRC alarm thresholds.</p>
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<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-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-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.

<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.

<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.

<nxd0-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-statistics>—No documentation is available yet.

<otn-oc-information>—No documentation is available yet.

<otn-odu-information>—No documentation is available yet.

<otn-otu-information>—No documentation is available yet.

<otn-rx-overhead>—No documentation is available yet.

<otn-tx-overhead>—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-uplink-physical-interface>—Shared uplink 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>  
         <ac-mac>*ac-mac*</ac-mac>  
         <auto-reconnect>*auto-reconnect*</auto-reconnect>  
         <idle-timeout>*idle-timeout*</idle-timeout>  
         <session-uptime>*session-uptime*</session-uptime>  
     **</pppoe-interface>**  
 </pppoe-information>

**Description** No documentation is available yet.

**Contents** <ac-mac>—AC MAC address.

<ac-name-config>—Configured AC name.

<ac-name-session>—Session AC name.

<auto-reconnect>—Autoreconnect timeout.

<idle-timeout>—Idle timeout.

<interface-index>—Index.

<interface-name>—Interface name.

<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>qu-co-rate-limit-drop-packets-rate
  </queue-counters-rate-limit-drop-packets-rate>
<queue-counters-rate-limit-drop-packets-na>qu-counters-rate-limit-drop-packets-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>qu-co-red-packets-rate-medium-low
        </queue-counters-red-packets-rate-medium-low>
    <queue-counters-red-bytes-rate-medium-low>qu-counters-red-bytes-rate-medium-low
        </queue-counters-red-bytes-rate-medium-low>
    <queue-counters-red-packets-medium-high>qu-counters-red-packets-medium-high
        </queue-counters-red-packets-medium-high>
    <queue-counters-red-bytes-medium-high>qu-co-red-bytes-medium-high
        </queue-counters-red-bytes-medium-high>
    <queue-counters-red-packets-rate-medium-high>que-co-red-pkts-rate-med-high

```

```

        </queue-counters-red-packets-rate-medium-high>
    <queue-counters-red-bytes-rate-medium-high>queue-co-red-bytes-rate-medium-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>que-counters-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-exc-packet-loss-rate-sample-period*  
             </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-uplink-information>**

- Usage** <logical-interface>  
     **<shared-uplink-information>**  
         <shared-uplink-logical-interface>...</shared-uplink-logical-interface>  
     **</shared-uplink-information>**  
     </logical-interface>
- Description** Shared uplink information.
- Contents** <shared-uplink-logical-interface>—Shared uplink logical interface.

**<shared-uplink-logical-interface>**

- Usage** <shared-uplink-information>  
     **<shared-uplink-logical-interface>**  
         <peer-interface-name>*peer-interface-name*</peer-interface-name>  
         <uplink-shared-with>*uplink-shared-with*</uplink-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-uplink-logical-interface>**  
     </shared-uplink-information>
- Description** Shared uplink logical interface.
- Contents** <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.
- <uplink-shared-with>—Logical interface owner.

**<shared-uplink-physical-interface>**

**Usage** <physical-interface>  
    **<shared-uplink-physical-interface>**  
        <ownership>ownership</ownership>  
    **</shared-uplink-physical-interface>**  
</physical-interface>

**Description** Shared uplink physical interface.

**Contents** <ownership>—Shared uplink 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>—Transceiver 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>**

<b>Usage</b>	<pre>&lt;virtual-circuit-information&gt;   &lt;b&gt;vci-range&lt;/b&gt;     &lt;vpi&gt;vpi&lt;/vpi&gt;     &lt;start-vci&gt;start-vci&lt;/start-vci&gt;     &lt;end-vci&gt;end-vci&lt;/end-vci&gt;   &lt;/b&gt; &lt;/virtual-circuit-information&gt;</pre>
<b>Description</b>	ATM VCI range.
<b>Contents</b>	<p>&lt;end-vci&gt;—ATM VCI range's end value.</p> <p>&lt;start-vci&gt;—ATM VCI range's start value.</p> <p>&lt;vpi&gt;—Virtual path identifier.</p>

**<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>  
 <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.

<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>  
         <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.

<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

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This section lists JUNOS XML tags that contain operational information about IP Security (IPSec). The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-ipsec>. To review the DTD for the tags, see “DTD for IPSec Response Tags” on page 1803.

### <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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;cert-load-status&gt;     &lt;cert-certificate-id&gt;cert-certificate-id&lt;/cert-certificate-id&gt;   &lt;/cert-load-status&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Local certificate load status.
<b>Contents</b>	<cert-certificate-id>—Certificate identifier.

**<cert-request-dump>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;cert-request-dump&gt;     &lt;cert-request-dump-msg&gt;cert-request-dump-msg&lt;/cert-request-dump-msg&gt;     &lt;cert-request-dump-file&gt;...&lt;/cert-request-dump-file&gt;     &lt;fingerprint&gt;...&lt;/fingerprint&gt;   &lt;/cert-request-dump&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Dump the generated certificate request.
<b>Contents</b>	<p>&lt;cert-request-dump-file&gt;—File contents.</p> <p>&lt;cert-request-dump-msg&gt;—Certificate request generated message.</p> <p>&lt;fingerprint&gt;—Fingerprint.</p>

**<cert-request-dump-file>**

<b>Usage</b>	<pre> &lt;cert-request-dump&gt;   &lt;cert-request-dump-file&gt;     &lt;cert-request-dump-file-content&gt;cert-request-dump-file-content   &lt;/cert-request-dump-file&gt; &lt;/cert-request-dump&gt; </pre>
<b>Description</b>	File contents.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;crl-information&gt;   &lt;crl&gt;     &lt;cert-issuer&gt;cert-issuer&lt;/cert-issuer&gt;     &lt;cert-id&gt;cert-id&lt;/cert-id&gt;     &lt;cert-references&gt;cert-references&lt;/cert-references&gt;     &lt;crl-list&gt;...&lt;/crl-list&gt;   &lt;/crl&gt; &lt;/crl-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;cert-id&gt;—No documentation is available yet.</p> <p>&lt;cert-issuer&gt;—No documentation is available yet.</p> <p>&lt;cert-references&gt;—No documentation is available yet.</p> <p>&lt;crl-list&gt;—Information about a single CRL entry.</p>

**<crl-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;crl-information&gt;     &lt;crl&gt;...&lt;/crl&gt;   &lt;/crl-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<crl>—No documentation is available yet.

**<crl-issuer-alternate-subject-list>**

<b>Usage</b>	<pre> &lt;x509-crl-information&gt;   &lt;crl-issuer-alternate-subject-list&gt;     &lt;crl-issuer-alternate-subject&gt;crl-issuer-alternate-subject     &lt;/crl-issuer-alternate-subject&gt;   &lt;/crl-issuer-alternate-subject-list&gt; &lt;/x509-crl-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>  
         <revocation-date>*crl-revocation-date*</revocation-date>  
     **</crl-revocation-list>**  
 </x509-crl-information>
- Description** No documentation is available yet.
- Contents** <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-decryptd-bytes>*esp-decryptd-bytes*</esp-decryptd-bytes>  
         <esp-encrypted-packets>*esp-encrypted-packets*</esp-encrypted-packets>  
         <esp-decryptd-packets>*esp-decryptd-packets*</esp-decryptd-packets>  
     **</esp-statistics>**  
 </ipsec-statistics>

**Description** No documentation is available yet.

**Contents** <esp-decryptd-bytes>—ESP decryptd bytes information.  
 <esp-decryptd-packets>—ESP decryptd 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>**

<b>Usage</b>	<pre> &lt;fips-pic-status-information&gt;   &lt;b&gt;fips-pic-status&lt;/b&gt;     &lt;fpc-slot&gt;fpc-slot&lt;/fpc-slot&gt;     &lt;pic-slot&gt;pic-slot&lt;/pic-slot&gt;     &lt;serial-number&gt;serial-number&lt;/serial-number&gt;     &lt;authorization-status&gt;authorization-status&lt;/authorization-status&gt;   &lt;/fips-pic-status&gt; &lt;/fips-pic-status-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;authorization-status&gt;—PIC authorization status.</p> <p>&lt;fpc-slot&gt;—FPC slot.</p> <p>&lt;pic-slot&gt;—PIC slot.</p> <p>&lt;serial-number&gt;—PIC serial number.</p>

**<fips-pic-status-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;b&gt;fips-pic-status-information&lt;/b&gt;     &lt;fips-pic-status&gt;...&lt;/fips-pic-status&gt;   &lt;/fips-pic-status-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<fips-pic-status>—No documentation is available yet.

**<ike-sa-algorithms>**

<b>Usage</b>	<pre> &lt;ike-security-associations&gt;   &lt;b&gt;ike-sa-algorithms&lt;/b&gt;     &lt;ike-sa-authentication-algorithm&gt;ike-sa-authentication-algorithm     &lt;/ike-sa-authentication-algorithm&gt;     &lt;ike-sa-encryption-algorithm&gt;ike-sa-encryption-algorithm     &lt;/ike-sa-encryption-algorithm&gt;     &lt;ike-sa-prf-algorithm&gt;ike-sa-prf-algorithm&lt;/ike-sa-prf-algorithm&gt;   &lt;/ike-sa-algorithms&gt; &lt;/ike-security-associations&gt; </pre>
<b>Description</b>	Algorithms used with the SA information.
<b>Contents</b>	<p>&lt;ike-sa-authentication-algorithm&gt;—Authentication algorithm.</p> <p>&lt;ike-sa-encryption-algorithm&gt;—Encryption algorithm.</p> <p>&lt;ike-sa-prf-algorithm&gt;—PRF algorithm.</p>

**<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-red-local-add*  
 </ipsec-tunnel-redundancy-local-address>  
 <ipsec-tunnel-redundancy-primary-remote-address>*ipsec-tunnel-red-prim-rem-add*  
 </ipsec-tunnel-redundancy-primary-remote-address>  
 <ipsec-tunnel-redundancy-backup-remote-address>*ipsec-tunnel-red-backup-rem-add*  
 </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>**

<b>Usage</b>	<x509-certificate-info   x509-certificate-cache-info> <b>&lt;issue-info&gt;</b> <recipient> <i>recipient</i> </recipient> <issued-by> <i>issued-by</i> </issued-by> <b>&lt;/issue-info&gt;</b> </x509-certificate-info   x509-certificate-cache-info>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<issued-by>—No documentation is available yet. <recipient>—No documentation is available yet.

**<issuer>**

<b>Usage</b>	<x509-certificate-info> <b>&lt;issuer&gt;</b> <distinguished-name>...</distinguished-name> <b>&lt;/issuer&gt;</b> </x509-certificate-info>
<b>Description</b>	Identifies the CA that issued certificate.
<b>Contents</b>	<distinguished-name>—No documentation is available yet.

**<key-usage-list>**

<b>Usage</b>	<x509-certificate-info   x509-certificate-cache-info> <b>&lt;key-usage-list&gt;</b> <key-usage> <i>key-usage</i> </key-usage> <b>&lt;/key-usage-list&gt;</b> </x509-certificate-info   x509-certificate-cache-info>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<key-usage>—Purpose for which X.509 key is used.

**<kmd-memory-usage>**

<b>Usage</b>	<kmd-memory-usage-information> <b>&lt;kmd-memory-usage&gt;</b> <memory-block-type> <i>memory-block-type</i> </memory-block-type> <memory-in-use> <i>memory-in-use</i> </memory-in-use> <b>&lt;/kmd-memory-usage&gt;</b> </kmd-memory-usage-information>
<b>Description</b>	Information about key management daemon memory usage.
<b>Contents</b>	<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>**

<b>Usage</b>	<security-associations-block   security-associations-information   services-security-associations-block   services-security-associations-information> <b>&lt;security-associations&gt;</b> <sa-direction> <i>sa-direction</i> </sa-direction> <sa-spi> <i>sa-spi</i> </sa-spi> <sa-aux-spi> <i>sa-aux-spi</i> </sa-aux-spi> <sa-state> <i>sa-state</i> </sa-state> <sa-mode> <i>sa-mode</i> </sa-mode> <sa-type> <i>sa-type</i> </sa-type> <sa-protocol> <i>sa-protocol</i> </sa-protocol> <sa-authentication-algorithm> <i>sa-authentication-algorithm</i> </sa-authentication-algorithm> <sa-encryption-algorithm> <i>sa-encryption-algorithm</i> </sa-encryption-algorithm> <sa-soft-lifetime> <i>sa-soft-lifetime</i> </sa-soft-lifetime> <sa-hard-lifetime> <i>sa-hard-lifetime</i> </sa-hard-lifetime> <sa-anti-replay-service> <i>sa-anti-replay-service</i> </sa-anti-replay-service> <sa-replay-window-size> <i>sa-replay-window-size</i> </sa-replay-window-size> <b>&lt;/security-associations&gt;</b> </security-associations-block   security-associations-information   services-security-associations-block   services-security-associations-information>
<b>Description</b>	Information about a single security association.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;services-security-associations-block   services-security-associations-information&gt;   &lt;tunnel-redundancy-extensive&gt;     &lt;ipsec-redundancy-counter&gt;ipsec-redundancy-counter&lt;/ipsec-redundancy-counter&gt;     &lt;ipsec-redundancy-tunnel-no-information/&gt;     &lt;ipsec-tunnel-redundancy-primary-remote-address&gt;ipsec-tunnel-red-prim-rem-add       &lt;/ipsec-tunnel-redundancy-primary-remote-address&gt;     &lt;ipsec-tunnel-redundancy-backup-remote-address&gt;ipsec-tunnel-red-bkup-rem-addr       &lt;/ipsec-tunnel-redundancy-backup-remote-address&gt;     &lt;ipsec-redundancy-primary-state&gt;ipsec-redundancy-primary-state       &lt;/ipsec-redundancy-primary-state&gt;     &lt;ipsec-redundancy-backup-state&gt;ipsec-redundancy-backup-state       &lt;/ipsec-redundancy-backup-state&gt;   &lt;/tunnel-redundancy-extensive&gt; &lt;/services-security-associations-block   services-security-associations-information&gt; </pre>
<b>Description</b>	Information about IPSec tunnel redundancy.
<b>Contents</b>	<pre> &lt;ipsec-redundancy-backup-state&gt;—State of backup remote gateway.  &lt;ipsec-redundancy-counter&gt;—Failover counter.  &lt;ipsec-redundancy-primary-state&gt;—State of primary remote gateway.  &lt;ipsec-redundancy-tunnel-no-information&gt;—Output string when tunnel redundancy is   not configured.  &lt;ipsec-tunnel-redundancy-backup-remote-address&gt;—Address of backup remote   gateway.  &lt;ipsec-tunnel-redundancy-primary-remote-address&gt;—Address of primary remote   gateway. </pre>

**<validity>**

<b>Usage</b>	<pre> &lt;x509-certificate-info   x509-certificate-cache-info&gt;   &lt;validity&gt;     &lt;not-before&gt;not-before&lt;/not-before&gt;     &lt;not-after&gt;not-after&lt;/not-after&gt;   &lt;/validity&gt; &lt;/x509-certificate-info   x509-certificate-cache-info&gt; </pre>
<b>Description</b>	Information about validity period for X.509 certificate.
<b>Contents</b>	<pre> &lt;not-after&gt;—End date of validity period.  &lt;not-before&gt;—Start date of validity period. </pre>

**<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

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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/9.3R1/junos-ipv6-nd>. To review the DTD for the tags, see “DTD for IPv6 Neighbor Discovery Response Tags” on page 1813.

### **<ipv6-modify-nd>**

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;ipv6-modify-nd&gt;     &lt;ipv6-modify-nd-entry&gt;...&lt;/ipv6-modify-nd-entry&gt;   &lt;/ipv6-modify-nd&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<ipv6-modify-nd-entry>—No documentation is available yet.

### **<ipv6-modify-nd-entry>**

<b>Usage</b>	<pre>&lt;ipv6-modify-nd&gt;   &lt;ipv6-modify-nd-entry&gt;     &lt;ipv6-nd-neighbor-address&gt;ipv6-nd-neighbor-address&lt;/ipv6-nd-neighbor-address&gt;     &lt;ipv6-nd-neighbor-l2-address&gt;ipv6-nd-neighbor-l2-address       &lt;/ipv6-nd-neighbor-l2-address&gt;     &lt;ipv6-nd-change&gt;ipv6-nd-change&lt;/ipv6-nd-change&gt;   &lt;/ipv6-modify-nd-entry&gt; &lt;/ipv6-modify-nd&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;ipv6-nd-change&gt;—No documentation is available yet.</p> <p>&lt;ipv6-nd-neighbor-address&gt;—Address of the neighbor.</p> <p>&lt;ipv6-nd-neighbor-l2-address&gt;—Layer 2 address of the neighbor.</p>

**<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

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This section lists JUNOS XML tags that contain operational information about ISDN. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-isdn>. To review the DTD for the tags, see “DTD for ISDN Response Tags” on page 1815.

### <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-sp-id>isdn-sp-id</isdn-sp-id>  
         <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-sp-id>—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-cmpl-sent>*rel-cmpl-sent*</rel-cmpl-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-cmpl-recv>*rel-cmpl-recv*</rel-cmpl-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 J20 GGSN Response Tags

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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/9.3R1/junos-ggsn>. To review the DTD for the tags, see “DTD for J20 GGSN Response Tags” on page 1819.

### <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>**

<b>Usage</b>	<pre> &lt;service-based-charging-for-gx&gt;   &lt;ccr-statistics&gt;     &lt;ccr-identifier&gt;ccr-identifier&lt;/ccr-identifier&gt;     &lt;authorization-failure&gt;authorization-failure&lt;/authorization-failure&gt;     &lt;authentication-failure&gt;authentication-failure&lt;/authentication-failure&gt;     &lt;session-failure&gt;session-failure&lt;/session-failure&gt;   &lt;/ccr-statistics&gt; &lt;/service-based-charging-for-gx&gt; </pre>
<b>Description</b>	Statistics for a credit control application system.
<b>Contents</b>	<p>&lt;authentication-failure&gt;—Failed CC requests due to result code Authentication Rejected.</p> <p>&lt;authorization-failure&gt;—Failed CC requests due to result code Authorization Rejected.</p> <p>&lt;ccr-identifier&gt;—Credit control application system identifier.</p> <p>&lt;session-failure&gt;—Failed CC requests due to result code Unknown Session ID.</p>

**<charging-statistics-information>**

<b>Usage</b>	<pre> &lt;ggsn-statistics&gt;   &lt;charging-statistics-information&gt;     &lt;encoded-cdrs&gt;encoded-cdrs&lt;/encoded-cdrs&gt;     &lt;failed-encoded-cdrs&gt;failed-encoded-cdrs&lt;/failed-encoded-cdrs&gt;     &lt;generated-ftp-cdrs&gt;generated-ftp-cdrs&lt;/generated-ftp-cdrs&gt;     &lt;generated-gtp-cdrs&gt;generated-gtp-cdrs&lt;/generated-gtp-cdrs&gt;     &lt;gtp-log-cdrs&gt;gtp-log-cdrs&lt;/gtp-log-cdrs&gt;     &lt;gtp-send-attempted-cdrs&gt;gtp-send-attempted-cdrs&lt;/gtp-send-attempted-cdrs&gt;     &lt;gtp-send-failed-cdrs&gt;gtp-send-failed-cdrs&lt;/gtp-send-failed-cdrs&gt;   &lt;/charging-statistics-information&gt; &lt;/ggsn-statistics&gt; </pre>
<b>Description</b>	Charging statistics.
<b>Contents</b>	<p>&lt;encoded-cdrs&gt;—Number of encoded CDRs.</p> <p>&lt;failed-encoded-cdrs&gt;—Number of CDRs that failed encoding.</p> <p>&lt;generated-ftp-cdrs&gt;—Number of CDRs generated for FTP.</p> <p>&lt;generated-gtp-cdrs&gt;—Number of CDRs generated for GTP prime.</p> <p>&lt;gtp-log-cdrs&gt;—Number of GTP prime CDRs stored in the charging log.</p> <p>&lt;gtp-send-attempted-cdrs&gt;—Number of CDRs attempted to be sent for GTP prime.</p> <p>&lt;gtp-send-failed-cdrs&gt;—Number of CDRs failed to be sent for GTP prime.</p>

**<cpu-info>**

<b>Usage</b>	<pre> &lt;resources&gt;   &lt;cpu-info&gt;     &lt;cpu-id&gt;cpu-id&lt;/cpu-id&gt;     &lt;cpu-load&gt;cpu-load&lt;/cpu-load&gt;   &lt;/cpu-info&gt; &lt;/resources&gt; </pre>
<b>Description</b>	CPU usage.
<b>Contents</b>	<p>&lt;cpu-id&gt;—CPU ID.</p> <p>&lt;cpu-load&gt;—CPU usage (percentage).</p>

**<das-information>**

<b>Usage</b>	<pre> &lt;sbcc-statistics-information&gt;   &lt;das-information&gt;     &lt;das-statistics&gt;...&lt;/das-statistics&gt;   &lt;/das-information&gt; &lt;/sbcc-statistics-information&gt; </pre>
<b>Description</b>	Information about diameter application systems.
<b>Contents</b>	<das-statistics>—Statistics for a diameter application system.

**<das-statistics>**

<b>Usage</b>	<pre> &lt;das-information&gt;   &lt;das-statistics&gt;     &lt;das-identifier&gt;das-identifier&lt;/das-identifier&gt;     &lt;request&gt;request&lt;/request&gt;   &lt;/das-statistics&gt; &lt;/das-information&gt; </pre>
<b>Description</b>	Statistics for a diameter application system.
<b>Contents</b>	<p>&lt;das-identifier&gt;—Diameter application system identifier.</p> <p>&lt;request&gt;—Requests.</p>

**<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 initiated 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 a 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>**

<b>Usage</b>	<pre> &lt;gtp-prime-statistics&gt;   &lt;node-alive-request-statistics&gt;     &lt;request-received&gt;request-received&lt;/request-received&gt;     &lt;request-transmitted&gt;request-transmitted&lt;/request-transmitted&gt;     &lt;response-received&gt;response-received&lt;/response-received&gt;     &lt;response-transmitted&gt;response-transmitted&lt;/response-transmitted&gt;   &lt;/node-alive-request-statistics&gt; &lt;/gtp-prime-statistics&gt; </pre>
<b>Description</b>	GTP Prime node alive request statistics.
<b>Contents</b>	<pre> &lt;request-received&gt;—Requests received.  &lt;request-transmitted&gt;—Requests sent.  &lt;response-received&gt;—Responses received.  &lt;response-transmitted&gt;—Responses sent. </pre>

**<nsapi-information>**

<b>Usage</b>	<pre> &lt;call-trace&gt;   &lt;nsapi-information&gt;     &lt;nsapi&gt;nsapi&lt;/nsapi&gt;   &lt;/nsapi-information&gt; &lt;/call-trace&gt; </pre>
<b>Description</b>	List of NSAPIs associated with user.
<b>Contents</b>	<pre> &lt;nsapi&gt;—Network Service Access Point Identifier for user. </pre>

**<outgoing>**

<b>Usage</b>	<pre> &lt;signalling&gt;   &lt;outgoing&gt;     &lt;packets&gt;packets&lt;/packets&gt;     &lt;bytes&gt;bytes&lt;/bytes&gt;   &lt;/outgoing&gt; &lt;/signalling&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre> &lt;bytes&gt;—Count of bytes.  &lt;packets&gt;—Count of packets. </pre>

**<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>**

<b>Usage</b>	<pre> &lt;ggsn-interface&gt;   &lt;pdp&gt;     &lt;pdp-state&gt;<i>pdp-state</i>&lt;/pdp-state&gt;     &lt;pdp-assigned&gt;<i>pdp-assigned</i>&lt;/pdp-assigned&gt;     &lt;pdp-capacity&gt;<i>pdp-capacity</i>&lt;/pdp-capacity&gt;   &lt;/pdp&gt; &lt;/ggsn-interface&gt; </pre>
<b>Description</b>	PDP context information.
<b>Contents</b>	<p>&lt;pdp-assigned&gt;—PDP contexts assigned to a PIC.</p> <p>&lt;pdp-capacity&gt;—Maximum number of active PDP contexts that a PIC can service.</p> <p>&lt;pdp-state&gt;—PDP service state for the PIC.</p>

**<pdp-context>**

<b>Usage</b>	<pre> &lt;pdp-context-information&gt;   &lt;pdp-context&gt;     &lt;nsapi&gt;<i>nsapi</i>&lt;/nsapi&gt;     &lt;nsapi-linked&gt;<i>nsapi-linked</i>&lt;/nsapi-linked&gt;     &lt;apn-name&gt;<i>apn-name</i>&lt;/apn-name&gt;     &lt;sgsn-address&gt;<i>sgsn-address</i>&lt;/sgsn-address&gt;     &lt;address&gt;<i>address</i>&lt;/address&gt;     &lt;charging-identifier&gt;<i>charging-identifier</i>&lt;/charging-identifier&gt;     &lt;quality-of-service&gt;...&lt;/quality-of-service&gt;     &lt;traffic-flow-template-information&gt;...&lt;/traffic-flow-template-information&gt;   &lt;/pdp-context&gt; &lt;/pdp-context-information&gt; </pre>
<b>Description</b>	Information relating to an MT/MS PDP context.
<b>Contents</b>	<p>&lt;address&gt;—No documentation is available yet.</p> <p>&lt;apn-name&gt;—APN for this context.</p> <p>&lt;charging-identifier&gt;—Charging identifier associated with the user.</p> <p>&lt;nsapi&gt;—Network Service Access Point Identifier for user.</p> <p>&lt;nsapi-linked&gt;—NSAPI of associated primary context.</p> <p>&lt;quality-of-service&gt;—PDP context quality-of-service information.</p> <p>&lt;sgsn-address&gt;—SGSN for this context.</p> <p>&lt;traffic-flow-template-information&gt;—Traffic flow templates (TFTs).</p>

**<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*

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        </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>

```

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<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-msisdns>—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-resp-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>**

<b>Usage</b>	<ggsn-statistics   apn-statistics> <b>&lt;radius-statistics-information&gt;</b> <radius-authentication-failure> <i>radius-authentication-failure</i> </radius-authentication-failure> <accounting-failure> <i>accounting-failure</i> </accounting-failure> <b>&lt;/radius-statistics-information&gt;</b> </ggsn-statistics   apn-statistics>
<b>Description</b>	Radius statistics.
<b>Contents</b>	<accounting-failure>—Number of failed RADIUS Accounting procedures.  <radius-authentication-failure>—Number of failed RADIUS Authentication procedures.

**<rate-group-information>**

<b>Usage</b>	<sbcc-statistics-information> <b>&lt;rate-group-information&gt;</b> <rate-group-statistics>...</rate-group-statistics> <b>&lt;/rate-group-information&gt;</b> </sbcc-statistics-information>
<b>Description</b>	Information about a rate group.
<b>Contents</b>	<rate-group-statistics>—Statistics for a rate group.

**<rate-group-statistics>**

<b>Usage</b>	<rate-group-information> <b>&lt;rate-group-statistics&gt;</b> <rate-group-identifier> <i>rate-group-identifier</i> </rate-group-identifier> <transactions-start> <i>transactions-start</i> </transactions-start> <transactions-success> <i>transactions-success</i> </transactions-success> <b>&lt;/rate-group-statistics&gt;</b> </rate-group-information>
<b>Description</b>	Statistics for a rate group.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;rulespace-based-charging-statistics&gt;   &lt;rs-statistics&gt;     &lt;rs-identifier&gt;rs-identifier&lt;/rs-identifier&gt;     &lt;uplink-statistics&gt;uplink-statistics&lt;/uplink-statistics&gt;     &lt;downlink-statistics&gt;downlink-statistics&lt;/downlink-statistics&gt;     &lt;service-instances&gt;service-instances&lt;/service-instances&gt;     &lt;discarded-uplink&gt;discarded-uplink&lt;/discarded-uplink&gt;     &lt;discarded-downlink&gt;discarded-downlink&lt;/discarded-downlink&gt;     &lt;gate-discarded-uplink&gt;gate-discarded-uplink&lt;/gate-discarded-uplink&gt;     &lt;gate-discarded-downlink&gt;gate-discarded-downlink&lt;/gate-discarded-downlink&gt;   &lt;/rs-statistics&gt; &lt;/rulespace-based-charging-statistics&gt; </pre>
<b>Description</b>	Statistics for a rule space.
<b>Contents</b>	<p>&lt;discarded-downlink&gt;—Discarded downlink packets due to authorization based on policy and credit control.</p> <p>&lt;discarded-uplink&gt;—Discarded uplink packets due to authorization based on policy and credit control.</p> <p>&lt;downlink-statistics&gt;—Downlink bytes identified per APN and rule space.</p> <p>&lt;gate-discarded-downlink&gt;—Discarded downlink packets due to closed gate.</p> <p>&lt;gate-discarded-uplink&gt;—Discarded uplink packets due to closed gate.</p> <p>&lt;rs-identifier&gt;—Rule space identifier.</p> <p>&lt;service-instances&gt;—Service instances identified per APN and rule space.</p> <p>&lt;uplink-statistics&gt;—Uplink bytes identified per APN and rule space.</p>

**<rulespace-based-charging-statistics>**

<b>Usage</b>	<pre> &lt;apn-statistics&gt;   &lt;rulespace-based-charging-statistics&gt;     &lt;rs-statistics&gt;...&lt;/rs-statistics&gt;   &lt;/rulespace-based-charging-statistics&gt; &lt;/apn-statistics&gt; </pre>
<b>Description</b>	Information about rule spaces.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;sgsn-statistics-information&gt;     &lt;sgsn-statistics&gt;...&lt;/sgsn-statistics&gt;   &lt;/sgsn-statistics-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	SGSN-level statistics for the GGSN service.
<b>Contents</b>	<sgsn-statistics>—Statistics information for an SGSN.

**<signalling>**

<b>Usage</b>	<pre> &lt;apn-statistics&gt;   &lt;signalling&gt;     &lt;incoming&gt;...&lt;/incoming&gt;     &lt;outgoing&gt;...&lt;/outgoing&gt;   &lt;/signalling&gt; &lt;/apn-statistics&gt; </pre>
<b>Description</b>	Signaling traffic.
<b>Contents</b>	<incoming>—No documentation is available yet. <outgoing>—No documentation is available yet.

**<software-action-results>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;software-action-results&gt;     &lt;software-action-message&gt;software-action-message&lt;/software-action-message&gt;   &lt;/software-action-results&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Results of a GGSN software software command.
<b>Contents</b>	<software-action-message>—Software action message.

**<tft-statistics>**

<b>Usage</b>	<pre> &lt;ggsn-interface&gt;   &lt;tft-statistics&gt;     &lt;maximum-tft-filter-depth&gt;maximum-tft-filter-depth&lt;/maximum-tft-filter-depth&gt;     &lt;mean-tft-filter-depth&gt;mean-tft-filter-depth&lt;/mean-tft-filter-depth&gt;   &lt;/tft-statistics&gt; &lt;/ggsn-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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/9.3R1/junos-lacpd>. To review the DTD for the tags, see “DTD for LACP Response Tags” on page 1837.

### **<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.

### **<lag-lacp-header>**

- Usage** `<lacp-interface-information>`  
     **<lag-lacp-header>**  
         `<aggregate-name>aggregate-name</aggregate-name>`  
     **</lag-lacp-header>**  
`</lacp-interface-information>`
- Description** LACP header.
- Contents** `<aggregate-name>`—Aggregated Interface name.



**<lag-lacp-info>**

<b>Usage</b>	<pre> &lt;lacp-interface-information&gt;   &lt;lag-lacp-info&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;lacp-role&gt;lacp-role&lt;/lacp-role&gt;     &lt;lacp-sys-priority&gt;lacp-sys-priority&lt;/lacp-sys-priority&gt;     &lt;lacp-system-id&gt;lacp-system-id&lt;/lacp-system-id&gt;     &lt;lacp-port-priority&gt;lacp-port-priority&lt;/lacp-port-priority&gt;     &lt;lacp-port-number&gt;lacp-port-number&lt;/lacp-port-number&gt;     &lt;lacp-port-key&gt;lacp-port-key&lt;/lacp-port-key&gt;   &lt;/lag-lacp-info&gt; &lt;/lacp-interface-information&gt; </pre>
<b>Description</b>	LACP information.
<b>Contents</b>	<p>&lt;lacp-port-key&gt;—Operational key of the port.</p> <p>&lt;lacp-port-number&gt;—Port number.</p> <p>&lt;lacp-port-priority&gt;—Priority of the port.</p> <p>&lt;lacp-role&gt;—Whether it is an actor or partner.</p> <p>&lt;lacp-sys-priority&gt;—System priority.</p> <p>&lt;lacp-system-id&gt;—LACP system identifier.</p> <p>&lt;name&gt;—Interface name.</p>

**<lag-lacp-protocol>**

<b>Usage</b>	<pre> &lt;lacp-interface-information&gt;   &lt;lag-lacp-protocol&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;lacp-receive-state&gt;lacp-receive-state&lt;/lacp-receive-state&gt;     &lt;lacp-transmit-state&gt;lacp-transmit-state&lt;/lacp-transmit-state&gt;     &lt;lacp-mux-state&gt;lacp-mux-state&lt;/lacp-mux-state&gt;   &lt;/lag-lacp-protocol&gt; &lt;/lacp-interface-information&gt; </pre>
<b>Description</b>	LACP protocol information.
<b>Contents</b>	<p>&lt;lacp-mux-state&gt;—State of the mux lacp machine.</p> <p>&lt;lacp-receive-state&gt;—State of the receive lacp machine.</p> <p>&lt;lacp-transmit-state&gt;—State of the transmit lacp machine.</p> <p>&lt;name&gt;—Interface name.</p>

**<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.

## Summary of Layer 2 Address Learning Response Tags

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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/9.3R1/junos-l2al>. To review the DTD for the tags, see “DTD for Layer 2 Address Learning Response Tags” on page 1839.

### <bridge-statistics-information>

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;bridge-statistics-information&gt;     &lt;l2ald-rtb-entry&gt;...&lt;/l2ald-rtb-entry&gt;     &lt;interface-statistics&gt;...&lt;/interface-statistics&gt;   &lt;/bridge-statistics-information&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-statistics&gt;—No documentation is available yet.</p> <p>&lt;l2ald-rtb-entry&gt;—No documentation is available yet.</p>

### <flood-nh-components>

<b>Usage</b>	<pre>&lt;flood-route   flood-nh-group&gt;   &lt;flood-nh-components&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;interface-type&gt;interface-type&lt;/interface-type&gt;     &lt;nhtype&gt;nhtype&lt;/nhtype&gt;     &lt;nhindex&gt;nhindex&lt;/nhindex&gt;   &lt;/flood-nh-components&gt; &lt;/flood-route   flood-nh-group&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-name&gt;—Bridging media access control address interface.</p> <p>&lt;interface-type&gt;—No documentation is available yet.</p> <p>&lt;nhindex&gt;—No documentation is available yet.</p> <p>&lt;nhtype&gt;—No documentation is available yet.</p>

**<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-table-name>l2rtb-table-name</l2rtb-table-name>  
 <l2rtb-table-mac-count>l2rtb-table-mac-count</l2rtb-table-mac-count>  
 <l2rtb-table-active-mac-count>l2rtb-table-active-mac-count  
 </l2rtb-table-active-mac-count>  
**</l2ald-bridge-instance-group>**  
 </l2ald-bridge-instance-information>

**Description** No documentation is available yet.

**Contents** <l2rtb-bridging-domain>—Name of the bridging domain.  
 <l2rtb-instance-description>—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-name>—Name of the routing instance.  
 <l2rtb-table-active-mac-count>—No documentation is available yet.  
 <l2rtb-table-mac-count>—No documentation is available yet.  
 <l2rtb-table-name>—No documentation is available yet.

**<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 Interface 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>**  
         <mac-count>*mac-count*</mac-count>  
     **</l2ald-global-macdb-count>**  
 </rpc-reply>
- Description** No documentation is available yet.
- Contents** <mac-count>—Number of 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>**  
 <ipc-mac-add>ipc-mac-add</ipc-mac-add>  
 <ipc-start-time-sec>ipc-start-time-sec</ipc-start-time-sec>  
 <ipc-start-time-usec>ipc-start-time-usec</ipc-start-time-usec>  
 <ipc-end-time-sec>ipc-end-time-sec</ipc-end-time-sec>  
 <ipc-end-time-usec>ipc-end-time-usec</ipc-end-time-usec>  
 <ipc-diff-time-sec>ipc-diff-time-sec</ipc-diff-time-sec>  
 <ipc-diff-time-usec>ipc-diff-time-usec</ipc-diff-time-usec>  
 <kernel-mac-add>kernel-mac-add</kernel-mac-add>  
 <kernel-start-time-sec>kernel-start-time-sec</kernel-start-time-sec>  
 <kernel-start-time-usec>kernel-start-time-usec</kernel-start-time-usec>  
 <kernel-end-time-sec>kernel-end-time-sec</kernel-end-time-sec>  
 <kernel-end-time-usec>kernel-end-time-usec</kernel-end-time-usec>  
 <kernel-diff-time-sec>kernel-diff-time-sec</kernel-diff-time-sec>  
 <kernel-diff-time-usec>kernel-diff-time-usec</kernel-diff-time-usec>  
**</l2ald-perf-counters>**  
 </rpc-reply>

**Description** Show L2 address learning performance information.

**Contents** <ipc-diff-time-sec>—IPC time difference (seconds hand).  
 <ipc-diff-time-usec>—IPC time difference (microseconds hand).  
 <ipc-end-time-sec>—IPC end time in seconds from Jan 1, 1970.  
 <ipc-end-time-usec>—IPC end time in MicroSeconds from Jan 1, 1970.  
 <ipc-mac-add>—Number of MACs seen in IPC.  
 <ipc-start-time-sec>—IPC start time in seconds from Jan 1, 1970.  
 <ipc-start-time-usec>—IPC start time in MicroSeconds from Jan 1, 1970.  
 <kernel-diff-time-sec>—Kernel time difference (seconds hand).  
 <kernel-diff-time-usec>—Kernel time difference (microseconds hand).  
 <kernel-end-time-sec>—Kernel end time in seconds from Jan 1, 1970.  
 <kernel-end-time-usec>—Kernel end time in MicroSeconds from Jan 1, 1970.  
 <kernel-mac-add>—Number of unique MACs sent to kernel.  
 <kernel-start-time-sec>—Kernel start time in seconds from Jan 1, 1970.  
 <kernel-start-time-usec>—Kernel 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>  
 <l2rtb-l2irb-ifl-index>l2rtb-l2irb-ifl-index</l2rtb-l2irb-ifl-index>  
 <l2bd-id>l2bd-id</l2bd-id>  
 <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 given 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>**

<b>Usage</b>	<pre> &lt;l2ald-rtb-mac-count-entry&gt;   &lt;l2ald-rtb-if-mac-count&gt;     &lt;l2ald-rtb-if-mac-count-entry&gt;...&lt;/l2ald-rtb-if-mac-count-entry&gt;   &lt;/l2ald-rtb-if-mac-count&gt; &lt;/l2ald-rtb-mac-count-entry&gt; </pre>
<b>Description</b>	MAC address count for all the interfaces in the routing instance.
<b>Contents</b>	<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>  
         <flood-route>...</flood-route>  
     **</l2ald-vpls-flood-instance-information>**  
 </l2ald-vpls-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-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

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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/9.3R1/junos-l2cp>. To review the DTD for the tags, see “DTD for Layer 2 Control Protocol Response Tags” on page 1847.

**<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.

**<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>*num-auth-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 tunnelling 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 information.

**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>**

<b>Usage</b>	<pre> &lt;cist-bridge-parameters&gt;   &lt;regional-root-bridge&gt;     &lt;bridge-priority&gt;bridge-priority&lt;/bridge-priority&gt;     &lt;bridge-mac&gt;bridge-mac&lt;/bridge-mac&gt;   &lt;/regional-root-bridge&gt; &lt;/cist-bridge-parameters&gt; </pre>
<b>Description</b>	CIST regional root bridge identifier.
<b>Contents</b>	<p>&lt;bridge-mac&gt;—Media access control address of bridge.</p> <p>&lt;bridge-priority&gt;—Bridge priority.</p>

**<root-bridge>**

<b>Usage</b>	<pre> &lt;cist-bridge-parameters   vst-bridge-parameters&gt;   &lt;root-bridge&gt;     &lt;bridge-priority&gt;bridge-priority&lt;/bridge-priority&gt;     &lt;bridge-mac&gt;bridge-mac&lt;/bridge-mac&gt;   &lt;/root-bridge&gt; &lt;/cist-bridge-parameters   vst-bridge-parameters&gt; </pre>
<b>Description</b>	Root bridge identifier.
<b>Contents</b>	<p>&lt;bridge-mac&gt;—Media access control address of bridge.</p> <p>&lt;bridge-priority&gt;—Bridge priority.</p>

**<stp-bridge>**

**Usage** <rpc-reply>  
     **<stp-bridge>**  
         <routing-instance-name>*routing-instance-name*</routing-instance-name>  
         <bpd-destination-mac-address>*bpd-destination-mac-address*  
             </bpd-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** <bpd-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-bpdu-sent>total-bpdu-sent</total-bpdu-sent>  
         <total-bpdu-received>total-bpdu-received</total-bpdu-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-bpdu-received>—Total number of BPDUs received.  
     <total-bpdu-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>**

<b>Usage</b>	<task-information   task-timer-information> <b>&lt;task&gt;</b> <task-name> <i>task-name</i> </task-name> <task-no-information/> <task-timer>...</task-timer> <b>&lt;/task&gt;</b> </task-information   task-timer-information>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;task-malloc-list&gt;   &lt;task-malloc&gt;     &lt;tm-name&gt;<i>tm-name</i>&lt;/tm-name&gt;     &lt;tm-allocs&gt;<i>tm-allocs</i>&lt;/tm-allocs&gt;     &lt;tm-alloc-bytes&gt;<i>tm-alloc-bytes</i>&lt;/tm-alloc-bytes&gt;     &lt;tm-max-allocs&gt;<i>tm-max-allocs</i>&lt;/tm-max-allocs&gt;     &lt;tm-max-alloc-bytes&gt;<i>tm-max-alloc-bytes</i>&lt;/tm-max-alloc-bytes&gt;     &lt;tm-function-calls&gt;<i>tm-function-calls</i>&lt;/tm-function-calls&gt;   &lt;/task-malloc&gt; &lt;/task-malloc-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;tm-alloc-bytes&gt;—Number of bytes allocated.</p> <p>&lt;tm-allocs&gt;—Number of allocations out.</p> <p>&lt;tm-function-calls&gt;—Number of function calls.</p> <p>&lt;tm-max-alloc-bytes&gt;—Maximum bytes allocated.</p> <p>&lt;tm-max-allocs&gt;—Maximum allocations ever out.</p> <p>&lt;tm-name&gt;—No documentation is available yet.</p>

**<task-malloc-list>**

<b>Usage</b>	<pre> &lt;task-memory-malloc-usage-report&gt;   &lt;task-malloc-list&gt;     &lt;task-malloc&gt;...&lt;/task-malloc&gt;   &lt;/task-malloc-list&gt; &lt;/task-memory-malloc-usage-report&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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-mem-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>**

<b>Usage</b>	<pre> &lt;task&gt;   &lt;task-timer&gt;     &lt;timer-name&gt;timer-name&lt;/timer-name&gt;     &lt;timer-late/&gt;     &lt;timer-expires&gt;timer-expires&lt;/timer-expires&gt;     &lt;timer-jitter&gt;timer-jitter&lt;/timer-jitter&gt;     &lt;timer-interval&gt;timer-interval&lt;/timer-interval&gt;     &lt;timer-flags&gt;timer-flags&lt;/timer-flags&gt;   &lt;/task-timer&gt; &lt;/task&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;timer-expires&gt;—Time after which timer expires.</p> <p>&lt;timer-flags&gt;—No documentation is available yet.</p> <p>&lt;timer-interval&gt;—Time to sleep between timer jobs.</p> <p>&lt;timer-jitter&gt;—Jitter, in percent.</p> <p>&lt;timer-late&gt;—Timer is expired but is still running.</p> <p>&lt;timer-name&gt;—Timer name.</p>

**<task-timer-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;task-timer-information&gt;     &lt;task&gt;...&lt;/task&gt;   &lt;/task-timer-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<task>—No documentation is available yet.

**<this-bridge>**

<b>Usage</b>	<pre> &lt;cist-bridge-parameters   msti-bridge-parameters   vst-bridge-parameters&gt;   &lt;this-bridge&gt;     &lt;bridge-priority&gt;bridge-priority&lt;/bridge-priority&gt;     &lt;bridge-mac&gt;bridge-mac&lt;/bridge-mac&gt;   &lt;/this-bridge&gt; &lt;/cist-bridge-parameters   msti-bridge-parameters   vst-bridge-parameters&gt; </pre>
<b>Description</b>	ID of bridge.
<b>Contents</b>	<p>&lt;bridge-mac&gt;—Media access control address of bridge.</p> <p>&lt;bridge-priority&gt;—Bridge priority.</p>

**<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-recd-5secs</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

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This section lists JUNOS XML tags that contain operational information about licenses on J-series platforms. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-license>. To review the DTD for the tags, see “DTD for License Response Tags” on page 1863.

### <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>**

<b>Usage</b>	<pre>&lt;feature-block&gt;   &lt;feature&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;description&gt;description&lt;/description&gt;     &lt;validity-information&gt;...&lt;/validity-information&gt;   &lt;/feature&gt; &lt;/feature-block&gt;</pre>
<b>Description</b>	A single feature instance.
<b>Contents</b>	<p>&lt;description&gt;—Description of feature.</p> <p>&lt;name&gt;—Identifier for this object.</p> <p>&lt;validity-information&gt;—No documentation is available yet.</p>

**<feature-block>**

<b>Usage</b>	<pre>&lt;license&gt;   &lt;feature-block&gt;     &lt;feature&gt;...&lt;/feature&gt;   &lt;/feature-block&gt; &lt;/license&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;license-key-information&gt;   &lt;license-key&gt;     &lt;name&gt;name&lt;/name&gt;     &lt;key-data&gt;key-data&lt;/key-data&gt;   &lt;/license-key&gt; &lt;/license-key-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;key-data&gt;—Textual license key.</p> <p>&lt;name&gt;—Identifier for this object.</p>

**<license-key-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;license-key-information&gt;     &lt;license-key&gt;...&lt;/license-key&gt;   &lt;/license-key-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Textual license keys.
<b>Contents</b>	<license-key>—No documentation is available yet.

**<license-summary-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;license-summary-information&gt;     &lt;license-usage-summary&gt;...&lt;/license-usage-summary&gt;     &lt;license-information&gt;...&lt;/license-information&gt;   &lt;/license-summary-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Feature license information.
<b>Contents</b>	<p>&lt;license-information&gt;—Information about feature licenses installed on device.</p> <p>&lt;license-usage-summary&gt;—Information about features licensed on this device.</p>

**<license-usage-summary>**

<b>Usage</b>	<pre> &lt;license-summary-information&gt;   &lt;license-usage-summary&gt;     &lt;features-used/&gt;     &lt;no-feature-used/&gt;     &lt;feature-summary&gt;...&lt;/feature-summary&gt;   &lt;/license-usage-summary&gt; &lt;/license-summary-information&gt; </pre>
<b>Description</b>	Information about features licensed on this device.
<b>Contents</b>	<p>&lt;feature-summary&gt;—No documentation is available yet.</p> <p>&lt;features-used&gt;—Licensed features are being used.</p> <p>&lt;no-feature-used&gt;—No licensed feature is being used.</p>

**<original-validity>**

<b>Usage</b>	<pre> &lt;validity-information&gt;   &lt;original-validity&gt;     &lt;original-validity-value&gt;original-validity-value&lt;/original-validity-value&gt;     &lt;original-validity-time-unit&gt;original-validity-time-unit     &lt;/original-validity-time-unit&gt;   &lt;/original-validity&gt; &lt;/validity-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;original-validity-time-unit&gt;—Unit of time measurement.</p> <p>&lt;original-validity-value&gt;—Integer value.</p>

**<remaining-time>**

<b>Usage</b>	<pre> &lt;validity-information   feature-summary&gt;   &lt;remaining-time&gt;     &lt;remaining-validity-value&gt;remaining-validity-value&lt;/remaining-validity-value&gt;     &lt;remaining-validity-time-unit&gt;remaining-validity-time-unit     &lt;/remaining-validity-time-unit&gt;   &lt;/remaining-time&gt; &lt;/validity-information   feature-summary&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;remaining-validity-time-unit&gt;—Unit of time measurement.</p> <p>&lt;remaining-validity-value&gt;—Integer value.</p>

**<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

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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/9.3R1/junos-licensed-feature-metadata>. To review the DTD for the tags, see “DTD for Licensed Feature Metadata Response Tags” on page 1867

### <alias>

<b>Usage</b>	<pre>&lt;licensed-feature&gt;   &lt;alias&gt;     &lt;base-feature&gt;<i>base-feature</i>&lt;/base-feature&gt;     &lt;cummulative-value&gt;<i>cummulative-value</i>&lt;/cummulative-value&gt;   &lt;/alias&gt; &lt;/licensed-feature&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;base-feature&gt;—Alias for the base feature.</p> <p>&lt;cummulative-value&gt;—The number of features being aliased.</p>

### <licensed-feature>

<b>Usage</b>	<pre>&lt;licensed-feature-metadata-information&gt;   &lt;licensed-feature&gt;     &lt;id&gt;<i>id</i>&lt;/id&gt;     &lt;name&gt;<i>name</i>&lt;/name&gt;     &lt;description&gt;<i>description</i>&lt;/description&gt;     &lt;flag&gt;<i>flag</i>&lt;/flag&gt;     &lt;alias&gt;...&lt;/alias&gt;   &lt;/licensed-feature&gt; &lt;/licensed-feature-metadata-information&gt;</pre>
<b>Description</b>	Information on a licensed feature.
<b>Contents</b>	<p>&lt;alias&gt;—No documentation is available yet.</p> <p>&lt;description&gt;—Feature description.</p> <p>&lt;flag&gt;—Feature flags.</p> <p>&lt;id&gt;—Feature ID.</p> <p>&lt;name&gt;—Feature display name.</p>

**<licensed-feature-metadata-information>**

- Usage** <rpc-reply>  
    **<licensed-feature-metadata-information>**  
        <licensed-feature>...</licensed-feature>  
    **</licensed-feature-metadata-information>**  
</rpc-reply>
- Description** Information 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/9.3R1/junos-lfm>. To review the DTD for the tags, see “DTD for Link-Fault Management Response Tags” on page 1857

**<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.

<Ifmd-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-evnt-recd-frame-per-err-window*  
           </lfmd-event-received-frame-period-error-window>  
           <lfmd-event-received-frame-period-error-threshold>*lfmd-evnt-recd-frame-perd-err-thr*  
           </lfmd-event-received-frame-period-error-threshold>  
           <lfmd-event-received-frame-period-error-count>*lfmd-evnt-re-fr-per-err-cnt*  
           </lfmd-event-received-frame-period-error-count>  
           <lfmd-event-received-frame-period-error-total-count>*lfmd-evnt-recd-frm-per-err-tot-cnt*  
           </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>*lfm-evnt-recd-frame-secs-error-window*  
         </lfmd-event-received-frame-seconds-error-window>  
         <lfmd-event-received-frame-seconds-error-threshold>*lfmd-e-re-frame-secs-err-thresh*  
             </lfmd-event-received-frame-seconds-error-threshold>  
         <lfmd-event-received-frame-seconds-error-count>*lfmd-evt-recd-frame-secs-err-count*  
             </lfmd-event-received-frame-seconds-error-count>  
         <lfmd-event-received-frame-seconds-error-total-count>*lfmd-ev-rec-frm-sec-err-tot-cnt*  
             </lfmd-event-received-frame-seconds-error-total-count>  
         <lfmd-event-received-frame-seconds-count>*lfmd-evt-recd-frame-secs-cnt*  
             </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-ev-rec-sy-er-win*  
     </lfmd-event-received-symbol-error-window>  
         <lfmd-event-received-symbol-error-threshold>*lfmd-evt-recd-symbol-err-thresh*  
         </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-evt-recd-symbol-err-tot-cnt*  
         </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-evt-transd-frame-err-threshold*  
         </lfmd-event-transmitted-frame-error-threshold>  
         <lfmd-event-transmitted-frame-error-count>*lfmd-evt-transd-frame-err-count*  
         </lfmd-event-transmitted-frame-error-count>  
         <lfmd-event-transmitted-frame-error-total-count>*lfmd-evt-transd-frame-err-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-evt-tr-sy-er-win*  
             </lfmd-event-transmitted-symbol-error-window>  
         <lfmd-event-transmitted-symbol-error-threshold>*lfmd-evt-tr-syl-err-threshold*  
             </lfmd-event-transmitted-symbol-error-threshold>  
         <lfmd-event-transmitted-symbol-error-count>*lfmd-evt-tr-sy-err-cnt*  
             </lfmd-event-transmitted-symbol-error-count>  
         <lfmd-event-transmitted-symbol-error-total-count>*lfmd-evt-tr-sym-err-tot-cnt*  
             </lfmd-event-transmitted-symbol-error-total-count>  
         <lfmd-event-transmitted-symbol-count>*lfmd-ev-tr-sy-co*  
             </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 MIP Response Tags

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This section lists JUNOS XML tags that contain operational information about MIP. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-mip>. To review the DTD for the tags, see “DTD for MIP Response Tags” on page 1873.

### **<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>  
     **</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.

<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 authentication 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-security>**

- Usage** <mip-security-information>  
     **<mip-security>**  
         <mip-nai>*mip-nai*</mip-nai>  
         <mip-home-address>*mip-home-address*</mip-home-address>  
         <mip-security-spi>*mip-security-spi*</mip-security-spi>  
         <mip-security-algorithm>*mip-security-algorithm*</mip-security-algorithm>  
         <mip-security-key>*mip-security-key*</mip-security-key>  
         <mip-security-replay>*mip-security-replay*</mip-security-replay>  
         <mip-security-replay-type>*mip-security-replay-type*</mip-security-replay-type>  
         <mip-security-time-tolerance>*mip-security-time-tolerance*  
             </mip-security-time-tolerance>  
         <mip-security-count>*mip-security-count*</mip-security-count>  
     **</mip-security>**  
 </mip-security-information>
- Description** Mobile IP security association information.
- Contents** <mip-home-address>—Mobile node's home address.
- <mip-nai>—Mobile IP network access identifier.
- <mip-security-algorithm>—Mobile IP security association algorithm.
- <mip-security-count>—Mobile IP security association count.
- <mip-security-key>—Mobile IP security association key.
- <mip-security-replay>—Mobile IP security association replay.
- <mip-security-replay-type>—Mobile IP security association replay type.
- <mip-security-spi>—Mobile IP security association SPI value.
- <mip-security-time-tolerance>—Mobile IP security association replay time tolerance.

**<mip-security-information>**

**Usage** <rpc-reply>  
     **<mip-security-information>**  
         <mip-security>...</mip-security>  
     **</mip-security-information>**  
 </rpc-reply>

**Description** Mobile IP security association information.

**Contents** <mip-security>—Mobile IP security association information.

**<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 allotted.

<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.

**<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/9.3R1/junos-mspinfo>. To review the DTD for the tags, see “DTD for MSP Response Tags” on page 1879.

### **<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/9.3R1/junos-mpls-oamd>. To review the DTD for the tags, see “DTD for MPLS OAM Response Tags” on page 1869.

### <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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;tracelsp-label&gt;     &lt;label-value&gt;label-value&lt;/label-value&gt;     &lt;label-depth&gt;label-depth&lt;/label-depth&gt;     &lt;label-protocol&gt;label-protocol&lt;/label-protocol&gt;   &lt;/tracelsp-label&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;label-depth&gt;—No documentation is available yet.</p> <p>&lt;label-protocol&gt;—No documentation is available yet.</p> <p>&lt;label-value&gt;—No documentation is available yet.</p>

**<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

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This section lists JUNOS XML tags that contain operational information about passive monitoring interfaces. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-passive-monitoring>. To review the DTD for the tags, see “DTD for Passive Monitoring Interfaces Response Tags” on page 1881.

**<error-information>**

<b>Usage</b>	<pre> &lt;passive-monitoring-information&gt;   &lt;error-information&gt;     &lt;error-packets-dropped-no-memory&gt;error-packets-dropped-no-memory     &lt;/error-packets-dropped-no-memory&gt;     &lt;error-packets-dropped-not-ip&gt;error-packets-dropped-not-ip     &lt;/error-packets-dropped-not-ip&gt;     &lt;error-packets-dropped-not-ipv4&gt;error-packets-dropped-not-ipv4     &lt;/error-packets-dropped-not-ipv4&gt;     &lt;error-packets-too-small&gt;error-packets-too-small&lt;/error-packets-too-small&gt;     &lt;error-allocation-failures&gt;error-allocation-failures     &lt;/error-allocation-failures&gt;     &lt;error-free-failures&gt;error-free-failures&lt;/error-free-failures&gt;     &lt;error-free-list-failures&gt;error-free-list-failures&lt;/error-free-list-failures&gt;     &lt;error-memory-warning&gt;error-memory-warning&lt;/error-memory-warning&gt;     &lt;error-memory-overload&gt;error-memory-overload&lt;/error-memory-overload&gt;     &lt;error-packets-per-second-overload&gt;error-packets-per-second-overload     &lt;/error-packets-per-second-overload&gt;     &lt;error-bytes-per-second-overload&gt;error-bytes-per-second-overload     &lt;/error-bytes-per-second-overload&gt;   &lt;/error-information&gt; &lt;/passive-monitoring-information&gt; </pre>
<b>Description</b>	Passive monitoring error information.
<b>Contents</b>	<p><b>&lt;error-allocation-failures&gt;</b>—Number of failed attempts to allocate memory.</p> <p><b>&lt;error-bytes-per-second-overload&gt;</b>—Whether the number of incoming bytes exceeds the designed per-second limit.</p> <p><b>&lt;error-free-failures&gt;</b>—Number of failed attempts to free memory.</p> <p><b>&lt;error-free-list-failures&gt;</b>—Number of operations that failed because free list memory is exhausted.</p> <p><b>&lt;error-memory-overload&gt;</b>—Whether memory is exhausted.</p> <p><b>&lt;error-memory-warning&gt;</b>—Reached low memory condition.</p> <p><b>&lt;error-packets-dropped-no-memory&gt;</b>—Number of packets dropped because memory is exhausted.</p> <p><b>&lt;error-packets-dropped-not-ip&gt;</b>—Number of packets dropped because they are not IP.</p> <p><b>&lt;error-packets-dropped-not-ipv4&gt;</b>—Number of packets dropped because they are not IPv4.</p> <p><b>&lt;error-packets-per-second-overload&gt;</b>—Whether the number of incoming packets exceeds the designed per-second limit.</p> <p><b>&lt;error-packets-too-small&gt;</b>—Number of packets dropped because their header is too small.</p>

**<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 PGM Response Tags

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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/9.3R1/junos-pgm>. To review the DTD for the tags, see “DTD for PGM Response Tags” on page 1885.

**<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>**

<b>Usage</b>	<pre> &lt;packet-counters&gt;   &lt;other&gt;     &lt;received&gt;received&lt;/received&gt;     &lt;sent&gt;sent&lt;/sent&gt;   &lt;/other&gt; &lt;/packet-counters&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;received&gt;—No documentation is available yet.</p> <p>&lt;sent&gt;—No documentation is available yet.</p>

**<packet-counters>**

<b>Usage</b>	<pre> &lt;pgm-statistics-information&gt;   &lt;packet-counters&gt;     &lt;spm&gt;...&lt;/spm&gt;     &lt;poll&gt;...&lt;/poll&gt;     &lt;polr&gt;...&lt;/polr&gt;     &lt;rdata&gt;...&lt;/rdata&gt;     &lt;nak&gt;...&lt;/nak&gt;     &lt;nullnak&gt;...&lt;/nullnak&gt;     &lt;ncf&gt;...&lt;/ncf&gt;     &lt;spmr&gt;...&lt;/spmr&gt;     &lt;other&gt;...&lt;/other&gt;     &lt;errors&gt;...&lt;/errors&gt;   &lt;/packet-counters&gt; &lt;/pgm-statistics-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;errors&gt;—No documentation is available yet.</p> <p>&lt;nak&gt;—No documentation is available yet.</p> <p>&lt;ncf&gt;—No documentation is available yet.</p> <p>&lt;nullnak&gt;—No documentation is available yet.</p> <p>&lt;other&gt;—No documentation is available yet.</p> <p>&lt;poll&gt;—No documentation is available yet.</p> <p>&lt;polr&gt;—No documentation is available yet.</p> <p>&lt;rdata&gt;—No documentation is available yet.</p> <p>&lt;spm&gt;—No documentation is available yet.</p> <p>&lt;spmr&gt;—No documentation is available yet.</p>

**<pgm-nak-interface>**

- Usage** <pgm-spm-nak>  
     **<pgm-nak-interface>**  
         <pgm-nak-interface-name>*pgm-nak-int-name*  
             </pgm-nak-interface-name>  
         <pgm-nak-interface-sender>*pgm-nak-int-sen*  
             </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>**

<b>Usage</b>	<pre> &lt;packet-counters&gt;   &lt;poll&gt;     &lt;received&gt;received&lt;/received&gt;     &lt;sent&gt;sent&lt;/sent&gt;   &lt;/poll&gt; &lt;/packet-counters&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;received&gt;—No documentation is available yet.</p> <p>&lt;sent&gt;—No documentation is available yet.</p>

**<polr>**

<b>Usage</b>	<pre> &lt;packet-counters&gt;   &lt;polr&gt;     &lt;received&gt;received&lt;/received&gt;     &lt;sent&gt;sent&lt;/sent&gt;   &lt;/polr&gt; &lt;/packet-counters&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;received&gt;—No documentation is available yet.</p> <p>&lt;sent&gt;—No documentation is available yet.</p>

**<rdata>**

<b>Usage</b>	<pre> &lt;packet-counters&gt;   &lt;rdata&gt;     &lt;received&gt;received&lt;/received&gt;     &lt;sent&gt;sent&lt;/sent&gt;   &lt;/rdata&gt; &lt;/packet-counters&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;received&gt;—No documentation is available yet.</p> <p>&lt;sent&gt;—No documentation is available yet.</p>

**<spm>**

<b>Usage</b>	<pre>&lt;packet-counters&gt;   &lt;spm&gt;     &lt;received&gt;received&lt;/received&gt;     &lt;sent&gt;sent&lt;/sent&gt;   &lt;/spm&gt; &lt;/packet-counters&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre>&lt;received&gt;—No documentation is available yet.  &lt;sent&gt;—No documentation is available yet.</pre>

**<spmr>**

<b>Usage</b>	<pre>&lt;packet-counters&gt;   &lt;spmr&gt;     &lt;received&gt;received&lt;/received&gt;     &lt;sent&gt;sent&lt;/sent&gt;   &lt;/spmr&gt; &lt;/packet-counters&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre>&lt;received&gt;—No documentation is available yet.  &lt;sent&gt;—No documentation is available yet.</pre>

## Summary of Periodic Packet Management Response Tags

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This section lists JUNOS XML tags that contain information about periodic packet management process. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-ppm>. To review the DTD for the tags, see “DTD for Periodic Packet Management Response Tag Elements” on page 1889.

**<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-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-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.

**<ppm-adjacencies>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;ppm-adjacencies&gt;     &lt;adjacency-data&gt;...&lt;/adjacency-data&gt;     &lt;total-adjacencies&gt;total-adjacencies&lt;/total-adjacencies&gt;     &lt;remote-adjacencies&gt;remote-adjacencies&lt;/remote-adjacencies&gt;   &lt;/ppm-adjacencies&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Information about one or more adjacencies of the periodic packet management process.
<b>Contents</b>	<p>&lt;adjacency-data&gt;—Information about an adjacency of the PPM process.</p> <p>&lt;remote-adjacencies&gt;—Number of remote adjacencies.</p> <p>&lt;total-adjacencies&gt;—Number of adjacencies.</p>

**<ppm-connections>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;ppm-connections&gt;     &lt;connection-data&gt;...&lt;/connection-data&gt;     &lt;total-connections&gt;total-connections&lt;/total-connections&gt;     &lt;remote-connections&gt;remote-connections&lt;/remote-connections&gt;   &lt;/ppm-connections&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Information about one or more connections to the periodic packet management process.
<b>Contents</b>	<p>&lt;connection-data&gt;—Information about a connection to the PPM process.</p> <p>&lt;remote-connections&gt;—Number of remote connections.</p> <p>&lt;total-connections&gt;—Number of connections.</p>

**<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

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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/9.3R1/junos-ppp>. To review the DTD for the tags, see “DTD for PPP Response Tag Elements” on page 1893.

### <assigned-address-list>

<b>Usage</b>	<pre>&lt;ppp-address-pool-information&gt;   &lt;assigned-address-list&gt;     &lt;pool-address-assignment&gt;...&lt;/pool-address-assignment&gt;   &lt;/assigned-address-list&gt; &lt;/ppp-address-pool-information&gt;</pre>
<b>Description</b>	List of addresses assigned in pool.
<b>Contents</b>	<pool-address-assignment>—Assignment information for one address in the pool.

### <ipcp-address>

<b>Usage</b>	<pre>&lt;ppp-negotiated-options&gt;   &lt;ipcp-address&gt;     &lt;local-address&gt;local-address&lt;/local-address&gt;     &lt;remote-address&gt;remote-address&lt;/remote-address&gt;   &lt;/ipcp-address&gt; &lt;/ppp-negotiated-options&gt;</pre>
<b>Description</b>	Negotiated IP address Internet Protocol Control Protocol option.
<b>Contents</b>	<local-address>—Local interface address negotiated with remote peer. <remote-address>—Destination address negotiated with remote peer.

### <ipv6cp-interface-identifier>

<b>Usage</b>	<pre>&lt;ppp-negotiated-options&gt;   &lt;ipv6cp-interface-identifier&gt;     &lt;local-interface-identifier&gt;local-interface-identifier     &lt;/local-interface-identifier&gt;     &lt;remote-interface-identifier&gt;remote-interface-identifier     &lt;/remote-interface-identifier&gt;   &lt;/ipv6cp-interface-identifier&gt; &lt;/ppp-negotiated-options&gt;</pre>
<b>Description</b>	Negotiated Internet Protocol Version 6 Control Protocol interface identifier option.
<b>Contents</b>	<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 completed successfully, 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 the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-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>  
         <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** <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-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>

**Description** PPP session.

**Contents** <ppp-auth-protocol-information>—Authentication protocol information for PPP session.

<ppp-last-completed>—Time when negotiation of the protocol last completed successfully, 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 the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-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 completed successfully, 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 the format YYYY-MM-DD hh:mm:ss TZ (year, month, date, hour in 24-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-statistics-information>**  
 </rpc-reply>
- Description** PPP statistics.
- Contents** <ppp-memory-statistics>—PPP process memory statistics.
- <ppp-session-statistics>—PPP session statistics.

**<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

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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/9.3R1/junos-pppoed>. To review the DTD for the tags, see “DTD for PPP over Ethernet Response Tags” on page 1897.

**<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>  
         <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>—Generic error received counter.

<padi-received>—PADI received counter.

<padi-sent>—PADI sent counter.

<padi-tmo>—PADI timeout counter.

<pado-received>—PADO received counter.

<pado-sent>—PADO sent counter.

<pado-tmo>—PADO timeout 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>  
 <ac-mac>*ac-mac*</ac-mac>  
 <auto-reconnect>*auto-reconnect*</auto-reconnect>  
 <idle-timeout>*idle-timeout*</idle-timeout>  
 <session-uptime>*session-uptime*</session-uptime>  
**</pppoe-interface>**  
 </pppoe-interface-information>

**Description** No documentation is available yet.

**Contents** <ac-mac>—AC MAC address.

<ac-name-config>—Configured AC name.

<ac-name-session>—Session AC name.

<auto-reconnect>—Autoreconnect timeout.

<idle-timeout>—Idle timeout.

<interface-index>—Index.

<interface-name>—Interface name.

<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

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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/9.3R1/junos-probe-tests>. To review the DTD for the tags, see “DTD for Probe-Test Response Tags” on page 1901.

### **<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-nexthead>—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>**

<b>Usage</b>	<pre> &lt;probe-result&gt;   &lt;ip-options&gt;     &lt;record-route&gt;...&lt;/record-route&gt;     &lt;loose-source-route&gt;...&lt;/loose-source-route&gt;     &lt;strict-source-route&gt;...&lt;/strict-source-route&gt;   &lt;/ip-options&gt; &lt;/probe-result&gt; </pre>
<b>Description</b>	IP options contained in the response.
<b>Contents</b>	<pre> &lt;loose-source-route&gt;—Loose source route (LSRR) IP option.  &lt;record-route&gt;—Record route (RR) IP option.  &lt;strict-source-route&gt;—Strict source route (SSRR) IP option. </pre>

**<loose-source-route>**

<b>Usage</b>	<pre> &lt;ip-options&gt;   &lt;loose-source-route&gt;     &lt;record-route-host&gt;...&lt;/record-route-host&gt;   &lt;/loose-source-route&gt; &lt;/ip-options&gt; </pre>
<b>Description</b>	Loose source route (LSRR) IP option.
<b>Contents</b>	<pre> &lt;record-route-host&gt;—Host entry in the record route. </pre>

**<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.

## 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/9.3R1/junos-productmetadata>. To review the DTD for the tags, see DTD for Product Metadata Response Tag Elements on page 1907

**<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-spm-per-chassis>max-spm-per-chassis</max-spm-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-spm-b-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** Information 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/9.3R1/junos-rdd>. To review the DTD for the tags, see “DTD for Redundant Interfaces Response Tags” on page 1909.

### <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-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/9.3R1/junos-res-cleanup>. To review the DTD for the tags, see “DTD for Resource Cleanup Response Tags” on page 1911.

### **<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>**

<b>Usage</b>	<pre> &lt;cleanup-resources&gt;   &lt;resource&gt;     &lt;type&gt;type&lt;/type&gt;     &lt;major-number&gt;major-number&lt;/major-number&gt;     &lt;minor-number&gt;minor-number&lt;/minor-number&gt;     &lt;id&gt;id&lt;/id&gt;     &lt;key&gt;key&lt;/key&gt;   &lt;/resource&gt; &lt;/cleanup-resources&gt; </pre>
<b>Description</b>	Resource information.
<b>Contents</b>	<p>&lt;id&gt;—Resource ID.</p> <p>&lt;key&gt;—Resource key value.</p> <p>&lt;major-number&gt;—GENCFG blob major number.</p> <p>&lt;minor-number&gt;—GENCFG blob minor number.</p> <p>&lt;type&gt;—Resource type name.</p>

**<resource-type>**

<b>Usage</b>	<pre> &lt;system-resource-cleanup-resources-information&gt;   &lt;resource-type&gt;     &lt;type&gt;type&lt;/type&gt;   &lt;/resource-type&gt; &lt;/system-resource-cleanup-resources-information&gt; </pre>
<b>Description</b>	Type of resource.
<b>Contents</b>	<type>—Resource type name.

**<system-resource-cleanup-processes-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;system-resource-cleanup-processes-information&gt;     &lt;process-resource-cleanup&gt;...&lt;/process-resource-cleanup&gt;   &lt;/system-resource-cleanup-processes-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Resource clean up information for one or more processes.
<b>Contents</b>	<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/9.3R1/junos-rtinfo>. To review the DTD for the tags, see “DTD for Routing and Forwarding Table Response Tags” on page 2019.

### <bridge-mac-destination-address-statistics>

<b>Usage</b>	<pre>&lt;rt-entry&gt;   &lt;bridge-mac-destination-address-statistics&gt;     &lt;packet-count&gt;packet-count&lt;/packet-count&gt;     &lt;byte-count&gt;byte-count&lt;/byte-count&gt;   &lt;/bridge-mac-destination-address-statistics&gt; &lt;/rt-entry&gt;</pre>
<b>Description</b>	MAC destination address statistics.
<b>Contents</b>	<pre>&lt;byte-count&gt;—Byte count.  &lt;packet-count&gt;—Packet count.</pre>

### <bridge-mac-source-address-statistics>

<b>Usage</b>	<pre>&lt;rt-entry&gt;   &lt;bridge-mac-source-address-statistics&gt;     &lt;packet-count&gt;packet-count&lt;/packet-count&gt;     &lt;byte-count&gt;byte-count&lt;/byte-count&gt;   &lt;/bridge-mac-source-address-statistics&gt; &lt;/rt-entry&gt;</pre>
<b>Description</b>	MAC source address statistics.
<b>Contents</b>	<pre>&lt;byte-count&gt;—Byte count.  &lt;packet-count&gt;—Packet count.</pre>

### <forwarding-table-information>

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;forwarding-table-information&gt;     &lt;route-table&gt;...&lt;/route-table&gt;   &lt;/forwarding-table-information&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	Information about forwarding-table routing entries.
<b>Contents</b>	<pre>&lt;route-table&gt;—Denotes a routing table.</pre>

**<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>  
         <via>*via*</via>  
         <nh-weight>*nh-weight*</nh-weight>  
         <nh-balance>*nh-balance*</nh-balance>  
         <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>  
     </nh>  
 </rt-entry>

**Description** Next hop for this routing table entry.

**Contents** <nh-balance>—Next-hop balance.

<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-reference-count>—Next-hop reference count.

<nh-type>—Next-hop type.

<nh-weight>—Next-hop weight.

<to>—Next-hop address for this entry.

<via>—Network interface name.

**<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>**

<b>Usage</b>	<pre>&lt;rt-entry&gt;   &lt;rpf-information&gt;     &lt;via&gt;via&lt;/via&gt;   &lt;/rpf-information&gt; &lt;/rt-entry&gt;</pre>
<b>Description</b>	Reverse-path forwarding check for this route.
<b>Contents</b>	<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

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This section lists JUNOS XML tags that contain operational information about routing protocols. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-routing>. To review the DTD for the tags, see “DTD for Routing Protocols Response Tags” on page 1913.

### <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>**

<b>Usage</b>	<pre> &lt;rt-entry&gt;   &lt;aggregate&gt;     &lt;aggregate-flags&gt;aggregate-flags&lt;/aggregate-flags&gt;     &lt;aggregate-depth&gt;aggregate-depth&lt;/aggregate-depth&gt;     &lt;aggregate-active/&gt;     &lt;aggregate-as-path&gt;...&lt;/aggregate-as-path&gt;     &lt;contributing-route-count&gt;contributing-route-count&lt;/contributing-route-count&gt;     &lt;aggregated-route&gt;...&lt;/aggregated-route&gt;   &lt;/aggregate&gt; &lt;/rt-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;aggregate-active&gt;—Present if this aggregate is active.</p> <p>&lt;aggregate-as-path&gt;—No documentation is available yet.</p> <p>&lt;aggregate-depth&gt;—Depth of this aggregate.</p> <p>&lt;aggregate-flags&gt;—Flags on this aggregate route entry.</p> <p>&lt;aggregated-route&gt;—No documentation is available yet.</p> <p>&lt;contributing-route-count&gt;—Number of contributing routes in this aggregate.</p>

**<aggregate-as-path>**

<b>Usage</b>	<pre> &lt;aggregate&gt;   &lt;aggregate-as-path&gt;     &lt;as-path&gt;as-path&lt;/as-path&gt;     &lt;reference-count&gt;reference-count&lt;/reference-count&gt;   &lt;/aggregate-as-path&gt; &lt;/aggregate&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;as-path&gt;—AS path of this route.</p> <p>&lt;reference-count&gt;—No documentation is available yet.</p>

**<aggregated-route>**

<b>Usage</b>	<pre> &lt;aggregate&gt;   &lt;aggregated-route&gt;     &lt;destination-prefix&gt;destination-prefix&lt;/destination-prefix&gt;     &lt;protocol-name&gt;protocol-name&lt;/protocol-name&gt;   &lt;/aggregated-route&gt; &lt;/aggregate&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;destination-prefix&gt;—Destination prefix and mask.</p> <p>&lt;protocol-name&gt;—No documentation is available yet.</p>

**<area-address-tlv>**

<b>Usage</b>	<pre> &lt;isis-tlv&gt;   &lt;area-address-tlv&gt;     &lt;address&gt;address&lt;/address&gt;     &lt;tlv-length&gt;tlv-length&lt;/tlv-length&gt;   &lt;/area-address-tlv&gt; &lt;/isis-tlv&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;address&gt;—No documentation is available yet.</p> <p>&lt;tlv-length&gt;—No documentation is available yet.</p>

**<aspath-bucket>**

<b>Usage</b>	<pre> &lt;aspath-table&gt;   &lt;aspath-bucket&gt;     &lt;aspath-entry&gt;...&lt;/aspath-entry&gt;     &lt;bucket&gt;bucket&lt;/bucket&gt;     &lt;count&gt;count&lt;/count&gt;   &lt;/aspath-bucket&gt; &lt;/aspath-table&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;aspath-entry&gt;—No documentation is available yet.</p> <p>&lt;bucket&gt;—Hash bucket.</p> <p>&lt;count&gt;—Number of entries.</p>

**<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-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-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>**

<b>Usage</b>	<pre> &lt;bgp-group-information&gt;   &lt;bgp-information&gt;     &lt;group-count&gt;group-count&lt;/group-count&gt;     &lt;peer-count&gt;peer-count&lt;/peer-count&gt;     &lt;external-peer-count&gt;external-peer-count&lt;/external-peer-count&gt;     &lt;internal-peer-count&gt;internal-peer-count&lt;/internal-peer-count&gt;     &lt;down-peer-count&gt;down-peer-count&lt;/down-peer-count&gt;     &lt;unconfigured-peer-count&gt;unconfigured-peer-count&lt;/unconfigured-peer-count&gt;     &lt;half-open-peer-count&gt;half-open-peer-count&lt;/half-open-peer-count&gt;     &lt;igp-converging/&gt;     &lt;flap-count&gt;flap-count&lt;/flap-count&gt;     &lt;bgp-rib&gt;...&lt;/bgp-rib&gt;     &lt;bgp-peer&gt;...&lt;/bgp-peer&gt;   &lt;/bgp-information&gt; &lt;/bgp-group-information&gt; </pre>
<b>Description</b>	Operational and configuration information for BGP.
<b>Contents</b>	<p>&lt;bgp-peer&gt;—Operational and configuration information for a BGP peer.</p> <p>&lt;bgp-rib&gt;—No documentation is available yet.</p> <p>&lt;down-peer-count&gt;—No documentation is available yet.</p> <p>&lt;external-peer-count&gt;—No documentation is available yet.</p> <p>&lt;flap-count&gt;—Number of times the BGP session has gone down.</p> <p>&lt;group-count&gt;—No documentation is available yet.</p> <p>&lt;half-open-peer-count&gt;—No documentation is available yet.</p> <p>&lt;igp-converging&gt;—This tag is present if BGP is quenched because the IGP is still converging.</p> <p>&lt;internal-peer-count&gt;—No documentation is available yet.</p> <p>&lt;peer-count&gt;—Total number of peers.</p> <p>&lt;unconfigured-peer-count&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;bgp-orf-filter-info&gt;   &lt;bgp-orf-extcomm-filter&gt;     &lt;extended-community&gt;extended-community&lt;/extended-community&gt;   &lt;/bgp-orf-extcomm-filter&gt; &lt;/bgp-orf-filter-info&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<extended-community>—Extended community.

**<bgp-orf-filter-info>**

<b>Usage</b>	<pre> &lt;bgp-orf-filter-information&gt;   &lt;bgp-orf-filter-info&gt;     &lt;bgp-orf-extcomm-filter&gt;...&lt;/bgp-orf-extcomm-filter&gt;     &lt;bgp-orf-prefix-filter&gt;...&lt;/bgp-orf-prefix-filter&gt;   &lt;/bgp-orf-filter-info&gt; &lt;/bgp-orf-filter-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<bgp-orf-extcomm-filter>—No documentation is available yet. <bgp-orf-prefix-filter>—No documentation is available yet.

**<bgp-orf-filter-information>**

<b>Usage</b>	<pre> &lt;bgp-orf-nlri-info&gt;   &lt;bgp-orf-filter-information&gt;     &lt;filter-type&gt;filter-type&lt;/filter-type&gt;     &lt;filter-mode&gt;filter-mode&lt;/filter-mode&gt;     &lt;filter-in-updates&gt;filter-in-updates&lt;/filter-in-updates&gt;     &lt;filter-out-updates&gt;filter-out-updates&lt;/filter-out-updates&gt;     &lt;filter-qcount&gt;filter-qcount&lt;/filter-qcount&gt;     &lt;bgp-orf-filter-info&gt;...&lt;/bgp-orf-filter-info&gt;   &lt;/bgp-orf-filter-information&gt; &lt;/bgp-orf-nlri-info&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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.

<nlr-type-peer>—Types of NLRIs supported by the peer: unicast or multicast.

<nlr-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>**

<b>Usage</b>	<pre> &lt;rsvp-interface&gt;   &lt;bypass-info&gt;     &lt;lp-status&gt;lp-status&lt;/lp-status&gt;     &lt;lp-requested&gt;lp-requested&lt;/lp-requested&gt;     &lt;lp-granted&gt;lp-granted&lt;/lp-granted&gt;     &lt;lp-failure&gt;lp-failure&lt;/lp-failure&gt;     &lt;total-bypass&gt;total-bypass&lt;/total-bypass&gt;     &lt;bypass-name&gt;bypass-name&lt;/bypass-name&gt;     &lt;bypass-state&gt;bypass-state&lt;/bypass-state&gt;     &lt;bypass-type&gt;bypass-type&lt;/bypass-type&gt;     &lt;rsvp-lp-psb-cnt&gt;rsvp-lp-psb-cnt&lt;/rsvp-lp-psb-cnt&gt;     &lt;rsvp-lp-backup-lsp-cnt&gt;rsvp-lp-backup-lsp-cnt&lt;/rsvp-lp-backup-lsp-cnt&gt;     &lt;lp-history&gt;...&lt;/lp-history&gt;   &lt;/bypass-info&gt; &lt;/rsvp-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;bypass-name&gt;—Name of the bypass.</p> <p>&lt;bypass-state&gt;—Bypass up/down status.</p> <p>&lt;bypass-type&gt;—Whether bypass type is link-protect or node-protect.</p> <p>&lt;lp-failure&gt;—Number of LSPs not granted protection.</p> <p>&lt;lp-granted&gt;—Number of LSPs granted protection.</p> <p>&lt;lp-history&gt;—Log of LSP path-related events.</p> <p>&lt;lp-requested&gt;—Number of LSPs requesting protection.</p> <p>&lt;lp-status&gt;—Link-protection status.</p> <p>&lt;rsvp-lp-backup-lsp-cnt&gt;—Number of backup RSVP LSPs tunneled through this bypass.</p> <p>&lt;rsvp-lp-psb-cnt&gt;—Number of sessions tunneled through this bypass.</p> <p>&lt;total-bypass&gt;—Number of bypass activated.</p>

**<c-multicast-ipv4>**

<b>Usage</b>	<pre> &lt;instance   instance-entry&gt;   &lt;c-multicast-ipv4&gt;     &lt;c-multicast-ipv4-entry&gt;...&lt;/c-multicast-ipv4-entry&gt;   &lt;/c-multicast-ipv4&gt; &lt;/instance   instance-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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-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>**

<b>Usage</b>	<pre> &lt;rsvp-interface&gt;   &lt;cos-info&gt;     &lt;queue-number&gt;queue-number&lt;/queue-number&gt;     &lt;tx-rate&gt;tx-rate&lt;/tx-rate&gt;     &lt;tx-rate-percent&gt;tx-rate-percent&lt;/tx-rate-percent&gt;     &lt;high-priority&gt;high-priority&lt;/high-priority&gt;     &lt;bw-exact&gt;bw-exact&lt;/bw-exact&gt;   &lt;/cos-info&gt; &lt;/rsvp-interface&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;bw-exact&gt;—Exact bandwidth allocation.</p> <p>&lt;high-priority&gt;—High/Low WRR priority.</p> <p>&lt;queue-number&gt;—HW queue number.</p> <p>&lt;tx-rate&gt;—No documentation is available yet.</p> <p>&lt;tx-rate-percent&gt;—No documentation is available yet.</p>

**<cspf-paths>**

<b>Usage</b>	<pre> &lt;mpls-cspf&gt;   &lt;cspf-paths&gt;     &lt;total-paths&gt;total-paths&lt;/total-paths&gt;     &lt;successful&gt;successful&lt;/successful&gt;     &lt;no-route&gt;no-route&lt;/no-route&gt;     &lt;sys-error&gt;sys-error&lt;/sys-error&gt;     &lt;cspfs&gt;cspfs&lt;/cspfs&gt;   &lt;/cspf-paths&gt; &lt;/mpls-cspf&gt; </pre>
<b>Description</b>	CSPF path computations statistics.
<b>Contents</b>	<p>&lt;cspfs&gt;—No documentation is available yet.</p> <p>&lt;no-route&gt;—No documentation is available yet.</p> <p>&lt;successful&gt;—No documentation is available yet.</p> <p>&lt;sys-error&gt;—No documentation is available yet.</p> <p>&lt;total-paths&gt;—No documentation is available yet.</p>

**<cspf-queue>**

<b>Usage</b>	<pre> &lt;mpls-cspf&gt;   &lt;cspf-queue&gt;     &lt;current&gt;current&lt;/current&gt;     &lt;maximum&gt;maximum&lt;/maximum&gt;     &lt;dequeued&gt;dequeued&lt;/dequeued&gt;   &lt;/cspf-queue&gt; &lt;/mpls-cspf&gt; </pre>
<b>Description</b>	CSPF queue statistics.
<b>Contents</b>	<p>&lt;current&gt;—No documentation is available yet.</p> <p>&lt;dequeued&gt;—No documentation is available yet.</p> <p>&lt;maximum&gt;—No documentation is available yet.</p>

**<cspf-timing>**

<b>Usage</b>	<pre> &lt;mpls-cspf&gt;   &lt;cspf-timing&gt;     &lt;total-time&gt;total-time&lt;/total-time&gt;     &lt;cspf-time&gt;cspf-time&lt;/cspf-time&gt;     &lt;average-time&gt;average-time&lt;/average-time&gt;     &lt;rpd-time&gt;rpd-time&lt;/rpd-time&gt;   &lt;/cspf-timing&gt; &lt;/mpls-cspf&gt; </pre>
<b>Description</b>	CSPF timing statistics.
<b>Contents</b>	<p>&lt;average-time&gt;—No documentation is available yet.</p> <p>&lt;cspf-time&gt;—No documentation is available yet.</p> <p>&lt;rpd-time&gt;—No documentation is available yet.</p> <p>&lt;total-time&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;esis-statistics-information&gt;   &lt;esis-totals-information&gt;     &lt;packets-received&gt;packets-received&lt;/packets-received&gt;     &lt;packets-sent&gt;packets-sent&lt;/packets-sent&gt;   &lt;/esis-totals-information&gt; &lt;/esis-statistics-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;packets-received&gt;—No documentation is available yet.</p> <p>&lt;packets-sent&gt;—No documentation is available yet.</p>

**<everything>**

<b>Usage</b>	<pre> &lt;pim-statistics-information&gt;   &lt;everything&gt;     &lt;pim-statistics-global&gt;...&lt;/pim-statistics-global&gt;     &lt;pim-statistics-other&gt;...&lt;/pim-statistics-other&gt;   &lt;/everything&gt; &lt;/pim-statistics-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;pim-statistics-global&gt;—No documentation is available yet.</p> <p>&lt;pim-statistics-other&gt;—No documentation is available yet.</p>

**<explicit-route>**

<b>Usage</b>	<pre> &lt;rsvp-session   detour   detour-branch   mpls-lsp-path   mpls-restart-path   mpls-restart-rsvp&gt;   &lt;explicit-route&gt;     &lt;address&gt;address&lt;/address&gt;     &lt;explicit-route-type&gt;explicit-route-type&lt;/explicit-route-type&gt;     &lt;telink-id&gt;telink-id&lt;/telink-id&gt;   &lt;/explicit-route&gt; &lt;/rsvp-session   detour   detour-branch   mpls-lsp-path   mpls-restart-path   mpls-restart-rsvp&gt; </pre>
<b>Description</b>	Explicit Route Object (ERO).
<b>Contents</b>	<p>&lt;address&gt;—No documentation is available yet.</p> <p>&lt;explicit-route-type&gt;—No documentation is available yet.</p> <p>&lt;telink-id&gt;—Link identifier of unnumbered link.</p>

**<fdep-depnode>**

<b>Usage</b>	<pre> &lt;fdep-node&gt;   &lt;b&gt;fdep-depnode&lt;/b&gt;     &lt;dep-rtnode-prefix&gt;dep-rtnode-prefix&lt;/dep-rtnode-prefix&gt;     &lt;dep-rtnode-prefixlen&gt;dep-rtnode-prefixlen&lt;/dep-rtnode-prefixlen&gt;     &lt;dep-entries&gt;dep-entries&lt;/dep-entries&gt;     &lt;dep-active&gt;dep-active&lt;/dep-active&gt;     &lt;dep-flags&gt;dep-flags&lt;/dep-flags&gt;   &lt;b&gt;/fdep-depnode&lt;/b&gt; &lt;/fdep-node&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;dep-active&gt;—Number of flow routes which match unicast origin.</p> <p>&lt;dep-entries&gt;—Number of flow routes with this destination address.</p> <p>&lt;dep-flags&gt;—No documentation is available yet.</p> <p>&lt;dep-rtnode-prefix&gt;—Prefix of unicast route used to resolve this flow destination.</p> <p>&lt;dep-rtnode-prefixlen&gt;—Prefix length of unicast route used to resolve this flow destination.</p>

**<fdep-inode>**

<b>Usage</b>	<pre> &lt;fdep-node&gt;   &lt;b&gt;fdep-inode&lt;/b&gt;     &lt;fdep-inode-color&gt;fdep-inode-color&lt;/fdep-inode-color&gt;     &lt;fdep-inode-consist&gt;fdep-inode-consist&lt;/fdep-inode-consist&gt;     &lt;fdep-inode-asn&gt;fdep-inode-asn&lt;/fdep-inode-asn&gt;   &lt;b&gt;/fdep-inode&lt;/b&gt; &lt;/fdep-node&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;fdep-inode-asn&gt;—Neighbor AS for all more specific unicast routes.</p> <p>&lt;fdep-inode-color&gt;—No documentation is available yet.</p> <p>&lt;fdep-inode-consist&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;rtd-flow-dep&gt;   &lt;flow-ucast-rt&gt;     &lt;flow-rtn-dest&gt;flow-rtn-dest&lt;/flow-rtn-dest&gt;     &lt;flow-rtn-plen&gt;flow-rtn-plen&lt;/flow-rtn-plen&gt;     &lt;flow-rtn-state&gt;flow-rtn-state&lt;/flow-rtn-state&gt;   &lt;/flow-ucast-rt&gt; &lt;/rtd-flow-dep&gt; </pre>
<b>Description</b>	Unicast route used for resolution.
<b>Contents</b>	<p>&lt;flow-rtn-dest&gt;—Destination address.</p> <p>&lt;flow-rtn-plen&gt;—Prefix length.</p> <p>&lt;flow-rtn-state&gt;—Validation entry state.</p>

**<history>**

<b>Usage</b>	<pre> &lt;connection&gt;   &lt;history&gt;     &lt;log-time-stamp&gt;log-time-stamp&lt;/log-time-stamp&gt;     &lt;log-event&gt;log-event&lt;/log-event&gt;     &lt;changed-entity&gt;changed-entity&lt;/changed-entity&gt;   &lt;/history&gt; &lt;/connection&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;changed-entity&gt;—No documentation is available yet.</p> <p>&lt;log-event&gt;—No documentation is available yet.</p> <p>&lt;log-time-stamp&gt;—No documentation is available yet.</p>

**<host-record>**

<b>Usage</b>	<pre> &lt;mgm-group&gt;   &lt;host-record&gt;     &lt;record-type&gt;record-type&lt;/record-type&gt;     &lt;receiver&gt;receiver&lt;/receiver&gt;     &lt;record-timeout&gt;record-timeout&lt;/record-timeout&gt;   &lt;/host-record&gt; &lt;/mgm-group&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;receiver&gt;—No documentation is available yet.</p> <p>&lt;record-timeout&gt;—No documentation is available yet.</p> <p>&lt;record-type&gt;—No documentation is available yet.</p>

**<hostname-tlv>**

<b>Usage</b>	<pre> &lt;isis-tlv&gt;   &lt;hostname-tlv&gt;     &lt;hostname&gt;hostname&lt;/hostname&gt;   &lt;/hostname-tlv&gt; &lt;/isis-tlv&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<hostname>—No documentation is available yet.

**<idrp-tlv>**

<b>Usage</b>	<pre> &lt;isis-tlv&gt;   &lt;idrp-tlv&gt;     &lt;tlv-length&gt;tlv-length&lt;/tlv-length&gt;   &lt;/idrp-tlv&gt; &lt;/isis-tlv&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<tlv-length>—No documentation is available yet.

**<iflist-next-hop>**

<b>Usage</b>	<pre> &lt;next-hops-family&gt;   &lt;iflist-next-hop&gt;     &lt;next-hop-id&gt;next-hop-id&lt;/next-hop-id&gt;     &lt;next-hop-ref-count&gt;next-hop-ref-count&lt;/next-hop-ref-count&gt;     &lt;next-hop-kernel-ref-count&gt;next-hop-kernel-ref-count       &lt;/next-hop-kernel-ref-count&gt;     &lt;next-hop-downstream-interface&gt;...&lt;/next-hop-downstream-interface&gt;   &lt;/iflist-next-hop&gt; &lt;/next-hops-family&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;next-hop-downstream-interface&gt;—No documentation is available yet.</p> <p>&lt;next-hop-id&gt;—No documentation is available yet.</p> <p>&lt;next-hop-kernel-ref-count&gt;—No documentation is available yet.</p> <p>&lt;next-hop-ref-count&gt;—No documentation is available yet.</p>

**<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-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>**

<b>Usage</b>	<l2vpn-connection-information   vpls-connection-information   vpls-statistics-information   vpls-ldp-dynamic-interface-repository-entity   mvpn-instance-information> <b>&lt;instance&gt;</b> <instance-name> <i>instance-name</i> </instance-name> <instance-display-error> <i>instance-display-error</i> </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> <b>&lt;/instance&gt;</b> </l2vpn-connection-information   vpls-connection-information   vpls-statistics-information   vpls-ldp-dynamic-interface-repository-entity   mvpn-instance-information>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<c-multicast-ipv4>—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>**

<b>Usage</b>	<pre> &lt;mvpn-instance&gt;   &lt;instance-entry&gt;     &lt;instance-name&gt;instance-name&lt;/instance-name&gt;     &lt;instance-display-error&gt;instance-display-error&lt;/instance-display-error&gt;     &lt;provider-tunnel&gt;...&lt;/provider-tunnel&gt;     &lt;neighbor&gt;...&lt;/neighbor&gt;     &lt;c-multicast-ipv4&gt;...&lt;/c-multicast-ipv4&gt;   &lt;/instance-entry&gt; &lt;/mvpn-instance&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;c-multicast-ipv4&gt;—No documentation is available yet.</p> <p>&lt;instance-display-error&gt;—No documentation is available yet.</p> <p>&lt;instance-name&gt;—No documentation is available yet.</p> <p>&lt;neighbor&gt;—No documentation is available yet.</p> <p>&lt;provider-tunnel&gt;—No documentation is available yet.</p>

**<instance-entry-summary>**

<b>Usage</b>	<pre> &lt;mvpn-instance&gt;   &lt;instance-entry-summary&gt;     &lt;neighbor-summary&gt;...&lt;/neighbor-summary&gt;     &lt;c-multicast-summary&gt;...&lt;/c-multicast-summary&gt;   &lt;/instance-entry-summary&gt; &lt;/mvpn-instance&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;c-multicast-summary&gt;—No documentation is available yet.</p> <p>&lt;neighbor-summary&gt;—No documentation is available yet.</p>

**<instance-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;instance-information&gt;     &lt;instance-core&gt;...&lt;/instance-core&gt;   &lt;/instance-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Operational and configuration information for routing instances.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;instance-core&gt;   &lt;instance-vrf&gt;     &lt;route-distinguisher&gt;route-distinguisher&lt;/route-distinguisher&gt;     &lt;vrf-import&gt;vrf-import&lt;/vrf-import&gt;     &lt;vrf-export&gt;vrf-export&lt;/vrf-export&gt;     &lt;vrf-import-target&gt;vrf-import-target&lt;/vrf-import-target&gt;     &lt;vrf-export-target&gt;vrf-export-target&lt;/vrf-export-target&gt;   &lt;/instance-vrf&gt; &lt;/instance-core&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;route-distinguisher&gt;—No documentation is available yet.</p> <p>&lt;vrf-export&gt;—No documentation is available yet.</p> <p>&lt;vrf-export-target&gt;—No documentation is available yet.</p> <p>&lt;vrf-import&gt;—No documentation is available yet.</p> <p>&lt;vrf-import-target&gt;—No documentation is available yet.</p>

**<interface>**

<b>Usage</b>	<pre> &lt;mesh-group-interfaces   reference-site   ldp-vpls-reference-site   vpls-protocol-state   interface-statistics&gt;   &lt;interface&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;interface-id&gt;interface-id&lt;/interface-id&gt;     &lt;interface-description&gt;interface-description&lt;/interface-description&gt;     &lt;local-interface-index&gt;local-interface-index&lt;/local-interface-index&gt;     &lt;interface-flags&gt;interface-flags&lt;/interface-flags&gt;     &lt;interface-flags-description&gt;interface-flags-description       &lt;/interface-flags-description&gt;   &lt;/interface&gt; &lt;/mesh-group-interfaces   reference-site   ldp-vpls-reference-site   vpls-protocol-state   interface-statistics&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-description&gt;—No documentation is available yet.</p> <p>&lt;interface-flags&gt;—No documentation is available yet.</p> <p>&lt;interface-flags-description&gt;—No documentation is available yet.</p> <p>&lt;interface-id&gt;—No documentation is available yet.</p> <p>&lt;interface-name&gt;—No documentation is available yet.</p> <p>&lt;local-interface-index&gt;—SNMP ifIndex of local interface.</p>

**<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 advertisement.  
 <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-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>**

<b>Usage</b>	<pre> &lt;isis-database-entry&gt;   &lt;isis-header&gt;     &lt;lsp-id&gt;lsp-id&lt;/lsp-id&gt;     &lt;pdu-length&gt;pdu-length&lt;/pdu-length&gt;     &lt;allocated-length&gt;allocated-length&lt;/allocated-length&gt;     &lt;router-id&gt;router-id&lt;/router-id&gt;     &lt;remaining-lifetime&gt;remaining-lifetime&lt;/remaining-lifetime&gt;     &lt;level&gt;level&lt;/level&gt;     &lt;interface-index&gt;interface-index&lt;/interface-index&gt;     &lt;estimated-free-bytes&gt;estimated-free-bytes&lt;/estimated-free-bytes&gt;     &lt;actual-free-bytes&gt;actual-free-bytes&lt;/actual-free-bytes&gt;     &lt;lsdb-timer-type&gt;lsdb-timer-type&lt;/lsdb-timer-type&gt;     &lt;lsdb-expiration-time&gt;lsdb-expiration-time&lt;/lsdb-expiration-time&gt;     &lt;needs-rebuild/&gt;     &lt;protocol&gt;protocol&lt;/protocol&gt;   &lt;/isis-header&gt; &lt;/isis-database-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;actual-free-bytes&gt;—No documentation is available yet.</p> <p>&lt;allocated-length&gt;—No documentation is available yet.</p> <p>&lt;estimated-free-bytes&gt;—No documentation is available yet.</p> <p>&lt;interface-index&gt;—No documentation is available yet.</p> <p>&lt;level&gt;—No documentation is available yet.</p> <p>&lt;lsdb-expiration-time&gt;—No documentation is available yet.</p> <p>&lt;lsdb-timer-type&gt;—No documentation is available yet.</p> <p>&lt;lsp-id&gt;—LSP ID or source port for some sender. It is unique to every sender or LSP.</p> <p>&lt;needs-rebuild&gt;—No documentation is available yet.</p> <p>&lt;pdu-length&gt;—No documentation is available yet.</p> <p>&lt;protocol&gt;—No documentation is available yet.</p> <p>&lt;remaining-lifetime&gt;—No documentation is available yet.</p> <p>&lt;router-id&gt;—No documentation is available yet.</p>

**<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>  
 <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 advertisement.

<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-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.

**<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>**

<b>Usage</b>	<pre> &lt;isis-overview&gt;   &lt;isis-level-information&gt;     &lt;isis-level&gt;isis-level&lt;/isis-level&gt;     &lt;isis-preference&gt;isis-preference&lt;/isis-preference&gt;     &lt;isis-external-preference&gt;isis-external-preference&lt;/isis-external-preference&gt;     &lt;isis-prefix-export-limit&gt;isis-prefix-export-limit&lt;/isis-prefix-export-limit&gt;     &lt;isis-narrow-metrics/&gt;     &lt;isis-wide-metrics/&gt;   &lt;/isis-level-information&gt; &lt;/isis-overview&gt; </pre>
<b>Description</b>	IS-IS Level Information.
<b>Contents</b>	<p>&lt;isis-external-preference&gt;—IS-IS external route preference.</p> <p>&lt;isis-level&gt;—IS-IS Level.</p> <p>&lt;isis-narrow-metrics&gt;—Generation of narrow metric TLVs is enabled.</p> <p>&lt;isis-preference&gt;—IS-IS internal route preference.</p> <p>&lt;isis-prefix-export-limit&gt;—IS-IS limit for external route export.</p> <p>&lt;isis-wide-metrics&gt;—Generation of wide metric TLVs is enabled.</p>

**<isis-lsp-authentication>**

<b>Usage</b>	<pre> &lt;isis-authentication-information&gt;   &lt;isis-lsp-authentication&gt;     &lt;level&gt;level&lt;/level&gt;     &lt;isis-level-lsp-authentication&gt;isis-level-lsp-authentication     &lt;/isis-level-lsp-authentication&gt;   &lt;/isis-lsp-authentication&gt; &lt;/isis-authentication-information&gt; </pre>
<b>Description</b>	Authentication type for LSP packets.
<b>Contents</b>	<p>&lt;isis-level-lsp-authentication&gt;—Authentication type for LSP packets.</p> <p>&lt;level&gt;—No documentation is available yet.</p>

**<isis-neighbor>**

<b>Usage</b>	<pre> &lt;isis-database-entry&gt;   &lt;isis-neighbor&gt;     &lt;isis-topology-id&gt;isis-topology-id&lt;/isis-topology-id&gt;     &lt;is-neighbor-id&gt;is-neighbor-id&lt;/is-neighbor-id&gt;     &lt;metric&gt;metric&lt;/metric&gt;     &lt;reachability-delay/&gt;     &lt;reachability-expense/&gt;     &lt;reachability-error/&gt;   &lt;/isis-neighbor&gt; &lt;/isis-database-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;is-neighbor-id&gt;—No documentation is available yet.</p> <p>&lt;isis-topology-id&gt;—No documentation is available yet.</p> <p>&lt;metric&gt;—No documentation is available yet.</p> <p>&lt;reachability-delay&gt;—No documentation is available yet.</p> <p>&lt;reachability-error&gt;—No documentation is available yet.</p> <p>&lt;reachability-expense&gt;—No documentation is available yet.</p>

**<isis-overload-information>**

<b>Usage</b>	<pre> &lt;isis-overview&gt;   &lt;isis-overload-information&gt;     &lt;isis-overload-enabled/&gt;     &lt;isis-overload-high-metrics&gt;isis-overload-high-metrics       &lt;/isis-overload-high-metrics&gt;     &lt;isis-overload-timeout&gt;isis-overload-timeout&lt;/isis-overload-timeout&gt;     &lt;isis-overload-remaining-time&gt;isis-overload-remaining-time       &lt;/isis-overload-remaining-time&gt;   &lt;/isis-overload-information&gt; &lt;/isis-overview&gt; </pre>
<b>Description</b>	Overload bit behaviour at startup.
<b>Contents</b>	<p>&lt;isis-overload-enabled&gt;—Overload bit upon startup is set.</p> <p>&lt;isis-overload-high-metrics&gt;—High metrics are used for Overload signaling.</p> <p>&lt;isis-overload-remaining-time&gt;—Time remaining on configured overload timeout.</p> <p>&lt;isis-overload-timeout&gt;—Clearance of the Overload bit after startup.</p>

**<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>**

<b>Usage</b>	<pre> &lt;isis-database-entry&gt;   &lt;isis-packet&gt;     &lt;lsp-id&gt;lsp-id&lt;/lsp-id&gt;     &lt;pdu-length&gt;pdu-length&lt;/pdu-length&gt;     &lt;pdu-lifetime&gt;pdu-lifetime&lt;/pdu-lifetime&gt;     &lt;checksum&gt;checksum&lt;/checksum&gt;     &lt;sequence-number&gt;sequence-number&lt;/sequence-number&gt;     &lt;lsp-attributes&gt;lsp-attributes&lt;/lsp-attributes&gt;     &lt;nlp-id&gt;nlp-id&lt;/nlp-id&gt;     &lt;mtid&gt;mtid&lt;/mtid&gt;     &lt;lsp-length&gt;lsp-length&lt;/lsp-length&gt;     &lt;pdu-version&gt;pdu-version&lt;/pdu-version&gt;     &lt;system-id-length&gt;system-id-length&lt;/system-id-length&gt;     &lt;isis-packet-type&gt;isis-packet-type&lt;/isis-packet-type&gt;     &lt;packet-version&gt;packet-version&lt;/packet-version&gt;     &lt;maximum-area&gt;maximum-area&lt;/maximum-area&gt;   &lt;/isis-packet&gt; &lt;/isis-database-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;checksum&gt;—No documentation is available yet.</p> <p>&lt;isis-packet-type&gt;—No documentation is available yet.</p> <p>&lt;lsp-attributes&gt;—No documentation is available yet.</p> <p>&lt;lsp-id&gt;—LSP ID or source port for some sender. It is unique to every sender or LSP.</p> <p>&lt;lsp-length&gt;—No documentation is available yet.</p> <p>&lt;maximum-area&gt;—No documentation is available yet.</p> <p>&lt;mtid&gt;—No documentation is available yet.</p> <p>&lt;nlp-id&gt;—No documentation is available yet.</p> <p>&lt;packet-version&gt;—No documentation is available yet.</p> <p>&lt;pdu-length&gt;—No documentation is available yet.</p> <p>&lt;pdu-lifetime&gt;—No documentation is available yet.</p> <p>&lt;pdu-version&gt;—No documentation is available yet.</p> <p>&lt;sequence-number&gt;—History event number.</p> <p>&lt;system-id-length&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;isis-database-entry&gt;   &lt;isis-prefix&gt;     &lt;protocol-name&gt;protocol-name&lt;/protocol-name&gt;     &lt;isis-topology-id&gt;isis-topology-id&lt;/isis-topology-id&gt;     &lt;address-prefix&gt;address-prefix&lt;/address-prefix&gt;     &lt;metric&gt;metric&lt;/metric&gt;     &lt;prefix-flag&gt;prefix-flag&lt;/prefix-flag&gt;     &lt;prefix-status&gt;prefix-status&lt;/prefix-status&gt;     &lt;reachability-delay/&gt;     &lt;reachability-expense/&gt;     &lt;reachability-error/&gt;   &lt;/isis-prefix&gt; &lt;/isis-database-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;address-prefix&gt;—No documentation is available yet.</p> <p>&lt;isis-topology-id&gt;—No documentation is available yet.</p> <p>&lt;metric&gt;—No documentation is available yet.</p> <p>&lt;prefix-flag&gt;—No documentation is available yet.</p> <p>&lt;prefix-status&gt;—No documentation is available yet.</p> <p>&lt;protocol-name&gt;—No documentation is available yet.</p> <p>&lt;reachability-delay&gt;—No documentation is available yet.</p> <p>&lt;reachability-error&gt;—No documentation is available yet.</p> <p>&lt;reachability-expense&gt;—No documentation is available yet.</p>

**<isis-prefix-subtlv>**

<b>Usage</b>	<pre> &lt;isis-tlv   ipv6-reachability-tlv   ip-prefix-tlv&gt;   &lt;isis-prefix-subtlv&gt;     &lt;isis-prefix-tag&gt;...&lt;/isis-prefix-tag&gt;   &lt;/isis-prefix-subtlv&gt; &lt;/isis-tlv   ipv6-reachability-tlv   ip-prefix-tlv&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<isis-prefix-tag>—No documentation is available yet.

**<isis-prefix-tag>**

<b>Usage</b>	<pre>&lt;isis-prefix-subtlv   prefix-reachability&gt;   &lt;isis-prefix-tag&gt;     &lt;isis-prefix-tag-index&gt;isis-prefix-tag-index&lt;/isis-prefix-tag-index&gt;     &lt;isis-prefix-tag-value&gt;isis-prefix-tag-value&lt;/isis-prefix-tag-value&gt;   &lt;/isis-prefix-tag&gt; &lt;/isis-prefix-subtlv   prefix-reachability&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre>&lt;isis-prefix-tag-index&gt;—No documentation is available yet. &lt;isis-prefix-tag-value&gt;—No documentation is available yet.</pre>

**<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>*isis-next-hop*</isis-next-hop>  
         <isis-next-hop-snpa>*isis-next-hop-snpa*</isis-next-hop-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-snpa>—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.

**<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>**

<b>Usage</b>	<pre> &lt;isis-overview&gt;   &lt;isis-routing&gt;     &lt;isis-routing-ipv4/&gt;     &lt;isis-routing-ipv6/&gt;     &lt;isis-routing-clns/&gt;   &lt;/isis-routing&gt; &lt;/isis-overview&gt; </pre>
<b>Description</b>	List of routed IS-IS address families.
<b>Contents</b>	<pre> &lt;isis-routing-clns&gt;—Routing CLNS prefixes is enabled.  &lt;isis-routing-ipv4&gt;—Routing IPv4 prefixes is enabled.  &lt;isis-routing-ipv6&gt;—Routing IPv6 prefixes is enabled. </pre>

**<isis-routing-table>**

<b>Usage</b>	<pre> &lt;isis-route-information&gt;   &lt;isis-routing-table&gt;     &lt;isis-topology-id&gt;isis-topology-id&lt;/isis-topology-id&gt;     &lt;level-one-version&gt;level-one-version&lt;/level-one-version&gt;     &lt;level-two-version&gt;level-two-version&lt;/level-two-version&gt;     &lt;isis-route&gt;...&lt;/isis-route&gt;   &lt;/isis-routing-table&gt; &lt;/isis-route-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre> &lt;isis-route&gt;—No documentation is available yet.  &lt;isis-topology-id&gt;—No documentation is available yet.  &lt;level-one-version&gt;—No documentation is available yet.  &lt;level-two-version&gt;—No documentation is available yet. </pre>

**<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-spf>**  
 </isis-spf-information>

**Description** No documentation is available yet.

**Contents** <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>**

<b>Usage</b>	<pre> &lt;isis-statistics-information&gt;   &lt;isis-statistics&gt;     &lt;system-name&gt;system-name&lt;/system-name&gt;     &lt;isis-pdu-statistics&gt;...&lt;/isis-pdu-statistics&gt;     &lt;totals-information&gt;...&lt;/totals-information&gt;     &lt;snp-queue-length&gt;snp-queue-length&lt;/snp-queue-length&gt;     &lt;snp-queue-drops&gt;snp-queue-drops&lt;/snp-queue-drops&gt;     &lt;lsp-queue-length&gt;lsp-queue-length&lt;/lsp-queue-length&gt;     &lt;lsp-queue-drops&gt;lsp-queue-drops&lt;/lsp-queue-drops&gt;     &lt;spf-runs&gt;spf-runs&lt;/spf-runs&gt;     &lt;fragments-rebuilt&gt;fragments-rebuilt&lt;/fragments-rebuilt&gt;     &lt;lsp-regenerated&gt;lsp-regenerated&lt;/lsp-regenerated&gt;     &lt;purges-initiated&gt;purges-initiated&lt;/purges-initiated&gt;   &lt;/isis-statistics&gt; &lt;/isis-statistics-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre> &lt;fragments-rebuilt&gt;—No documentation is available yet.  &lt;isis-pdu-statistics&gt;—No documentation is available yet.  &lt;lsp-queue-drops&gt;—No documentation is available yet.  &lt;lsp-queue-length&gt;—No documentation is available yet.  &lt;lsp-regenerated&gt;—No documentation is available yet.  &lt;purges-initiated&gt;—No documentation is available yet.  &lt;snp-queue-drops&gt;—No documentation is available yet.  &lt;snp-queue-length&gt;—No documentation is available yet.  &lt;spf-runs&gt;—No documentation is available yet.  &lt;system-name&gt;—Hostname for a system.  &lt;totals-information&gt;—No documentation is available yet. </pre>

**<isis-statistics-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;isis-statistics-information&gt;     &lt;isis-statistics&gt;...&lt;/isis-statistics&gt;   &lt;/isis-statistics-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pre>&lt;isis-statistics&gt;—No documentation is available yet.</pre>

**<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-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.

**<join-family>**

**Usage**   <pim-join-information>  
          **<join-family>**  
            <pim-instance>*pim-instance*</pim-instance>  
            <address-family>*address-family*</address-family>  
            <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.  
  
              <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.

**<juniper-routing-aspath>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;juniper-routing-aspath&gt;     &lt;aspath-domain&gt;...&lt;/aspath-domain&gt;     &lt;aspath-table&gt;...&lt;/aspath-table&gt;   &lt;/juniper-routing-aspath&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Operational and configuration information for AS paths.
<b>Contents</b>	<p>&lt;aspath-domain&gt;—No documentation is available yet.</p> <p>&lt;aspath-table&gt;—No documentation is available yet.</p>

**<l2circuit-connection-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;l2circuit-connection-information&gt;     &lt;l2circuit-neighbor&gt;...&lt;/l2circuit-neighbor&gt;   &lt;/l2circuit-connection-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<l2circuit-neighbor>—No documentation is available yet.

**<l2circuit-neighbor>**

<b>Usage</b>	<pre> &lt;l2circuit-connection-information&gt;   &lt;l2circuit-neighbor&gt;     &lt;neighbor-address&gt;neighbor-address&lt;/neighbor-address&gt;     &lt;neighbor-display-error&gt;neighbor-display-error&lt;/neighbor-display-error&gt;     &lt;lsw-interface-name&gt;lsw-interface-name&lt;/lsw-interface-name&gt;     &lt;connection&gt;...&lt;/connection&gt;     &lt;connections-summary&gt;...&lt;/connections-summary&gt;   &lt;/l2circuit-neighbor&gt; &lt;/l2circuit-connection-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;connection&gt;—No documentation is available yet.</p> <p>&lt;connections-summary&gt;—No documentation is available yet.</p> <p>&lt;lsw-interface-name&gt;—No documentation is available yet.</p> <p>&lt;neighbor-address&gt;—IP address of this neighbor.</p> <p>&lt;neighbor-display-error&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;l2vpn-route-distinguisher-information   vpls-bgp-route-distinguisher-information&gt;   &lt;l2vpn-nlri-advertisement&gt;     &lt;site-id&gt;site-id&lt;/site-id&gt;     &lt;label-block-offset&gt;label-block-offset&lt;/label-block-offset&gt;     &lt;label-block-base&gt;label-block-base&lt;/label-block-base&gt;     &lt;label-block-range&gt;label-block-range&lt;/label-block-range&gt;     &lt;label-repository-state&gt;label-repository-state&lt;/label-repository-state&gt;   &lt;/l2vpn-nlri-advertisement&gt; &lt;/l2vpn-route-distinguisher-information   vpls-bgp-route-distinguisher-information&gt; </pre>
<b>Description</b>	Information about a Layer 2 VPN network layer reachability information replication entry.
<b>Contents</b>	<p>&lt;label-block-base&gt;—No documentation is available yet.</p> <p>&lt;label-block-offset&gt;—No documentation is available yet.</p> <p>&lt;label-block-range&gt;—No documentation is available yet.</p> <p>&lt;label-repository-state&gt;—State of label replication entry.</p> <p>&lt;site-id&gt;—Site identifier.</p>

**<l2vpn-route-distinguisher-information>**

<b>Usage</b>	<pre> &lt;l2vpn-label-repository-information&gt;   &lt;l2vpn-route-distinguisher-information&gt;     &lt;route-distinguisher&gt;route-distinguisher&lt;/route-distinguisher&gt;     &lt;instance-id&gt;instance-id&lt;/instance-id&gt;     &lt;l2vpn-nlri-advertisement&gt;...&lt;/l2vpn-nlri-advertisement&gt;   &lt;/l2vpn-route-distinguisher-information&gt; &lt;/l2vpn-label-repository-information&gt; </pre>
<b>Description</b>	Information about a route distinguisher replication entry.
<b>Contents</b>	<p>&lt;instance-id&gt;—Routing instance identifier.</p> <p>&lt;l2vpn-nlri-advertisement&gt;—Information about a Layer 2 VPN network layer reachability information replication entry.</p> <p>&lt;route-distinguisher&gt;—No documentation is available yet.</p>

**<label-block>**

<b>Usage</b>	<pre> &lt;reference-site&gt;   &lt;label-block&gt;     &lt;label-block-base&gt;label-block-base&lt;/label-block-base&gt;     &lt;label-block-offset&gt;label-block-offset&lt;/label-block-offset&gt;     &lt;label-block-range&gt;label-block-range&lt;/label-block-range&gt;     &lt;label-block-preference&gt;label-block-preference&lt;/label-block-preference&gt;     &lt;label-block-status-vector&gt;label-block-status-vector       &lt;/label-block-status-vector&gt;   &lt;/label-block&gt; &lt;/reference-site&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;label-block-base&gt;—No documentation is available yet.</p> <p>&lt;label-block-offset&gt;—No documentation is available yet.</p> <p>&lt;label-block-preference&gt;—No documentation is available yet.</p> <p>&lt;label-block-range&gt;—No documentation is available yet.</p> <p>&lt;label-block-status-vector&gt;—No documentation is available yet.</p>

**<layer2-connection>**

<b>Usage</b>	<pre> &lt;mpls-lsp-path&gt;   &lt;layer2-connection&gt;     &lt;neighbor-address&gt;neighbor-address&lt;/neighbor-address&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;vc-id&gt;vc-id&lt;/vc-id&gt;     &lt;connection-bandwidth&gt;...&lt;/connection-bandwidth&gt;   &lt;/layer2-connection&gt; &lt;/mpls-lsp-path&gt; </pre>
<b>Description</b>	Layer 2 connection using the LSP path.
<b>Contents</b>	<p>&lt;connection-bandwidth&gt;—Bandwidth of a layer 2 connection.</p> <p>&lt;interface-name&gt;—No documentation is available yet.</p> <p>&lt;neighbor-address&gt;—IP address of this neighbor.</p> <p>&lt;vc-id&gt;—No documentation is available yet.</p>

**<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-ccv-cc-type>...</ldp-l2circuit-ccv-cc-type>  
         <ldp-l2circuit-ccv-cv-type>...</ldp-l2circuit-ccv-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-vcv-cc-type>—VCCV connectivity channel types supported by peer.

<ldp-l2circuit-vcv-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>**

<b>Usage</b>	<pre> &lt;ldp-neighbor-information&gt;   &lt;ldp-neighbor&gt;     &lt;ldp-neighbor-address&gt;ldp-neighbor-address&lt;/ldp-neighbor-address&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;ldp-label-space-id&gt;ldp-label-space-id&lt;/ldp-label-space-id&gt;     &lt;ldp-remaining-time&gt;ldp-remaining-time&lt;/ldp-remaining-time&gt;     &lt;ldp-transport-address&gt;ldp-transport-address&lt;/ldp-transport-address&gt;     &lt;ldp-config-sequence&gt;ldp-config-sequence&lt;/ldp-config-sequence&gt;     &lt;ldp-up-time&gt;ldp-up-time&lt;/ldp-up-time&gt;     &lt;ldp-reference-count&gt;ldp-reference-count&lt;/ldp-reference-count&gt;     &lt;ldp-holdtime&gt;ldp-holdtime&lt;/ldp-holdtime&gt;     &lt;ldp-proposed-local-holdtime&gt;ldp-proposed-local-holdtime       &lt;/ldp-proposed-local-holdtime&gt;     &lt;ldp-proposed-peer-holdtime&gt;ldp-proposed-peer-holdtime       &lt;/ldp-proposed-peer-holdtime&gt;     &lt;ldp-neighbor-hello-flags&gt;...&lt;/ldp-neighbor-hello-flags&gt;     &lt;ldp-neighbor-types&gt;...&lt;/ldp-neighbor-types&gt;   &lt;/ldp-neighbor&gt; &lt;/ldp-neighbor-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-name&gt;—No documentation is available yet.</p> <p>&lt;ldp-config-sequence&gt;—No documentation is available yet.</p> <p>&lt;ldp-holdtime&gt;—No documentation is available yet.</p> <p>&lt;ldp-label-space-id&gt;—No documentation is available yet.</p> <p>&lt;ldp-neighbor-address&gt;—No documentation is available yet.</p> <p>&lt;ldp-neighbor-hello-flags&gt;—LDP neighbor hello flags.</p> <p>&lt;ldp-neighbor-types&gt;—LDP neighbor types.</p> <p>&lt;ldp-proposed-local-holdtime&gt;—The local value of the hold time.</p> <p>&lt;ldp-proposed-peer-holdtime&gt;—The peer's proposed value of the hold time.</p> <p>&lt;ldp-reference-count&gt;—No documentation is available yet.</p> <p>&lt;ldp-remaining-time&gt;—No documentation is available yet.</p> <p>&lt;ldp-transport-address&gt;—No documentation is available yet.</p> <p>&lt;ldp-up-time&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;ldp-neighbor   ldp-session&gt;   &lt;ldp-neighbor-types&gt;     &lt;ldp-neighbor-type&gt;ldp-neighbor-type&lt;/ldp-neighbor-type&gt;   &lt;/ldp-neighbor-types&gt; &lt;/ldp-neighbor   ldp-session&gt; </pre>
<b>Description</b>	LDP neighbor types.
<b>Contents</b>	<ldp-neighbor-type>—LDP neighbor type.

**<ldp-nexthop>**

<b>Usage</b>	<pre> &lt;ldp-route&gt;   &lt;ldp-nexthop&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;lsp-name&gt;lsp-name&lt;/lsp-name&gt;     &lt;lsp-no-ldp-tunneling/&gt;     &lt;interface-address&gt;interface-address&lt;/interface-address&gt;     &lt;ldp-session-id&gt;ldp-session-id&lt;/ldp-session-id&gt;   &lt;/ldp-nexthop&gt; &lt;/ldp-route&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-address&gt;—No documentation is available yet.</p> <p>&lt;interface-name&gt;—No documentation is available yet.</p> <p>&lt;ldp-session-id&gt;—No documentation is available yet.</p> <p>&lt;lsp-name&gt;—Tunneled into an RSVP LSP.</p> <p>&lt;lsp-no-ldp-tunneling&gt;—LDP tunneling is not configured on LSP.</p>

**<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>**

<b>Usage</b>	<pre> &lt;ldp-path-information&gt;   &lt;ldp-path&gt;     &lt;ldp-outlib-session&gt;ldp-outlib-session&lt;/ldp-outlib-session&gt;     &lt;ldp-outlib-label&gt;ldp-outlib-label&lt;/ldp-outlib-label&gt;     &lt;ldp-ingress-label/&gt;     &lt;ldp-inlib-session&gt;ldp-inlib-session&lt;/ldp-inlib-session&gt;     &lt;ldp-inlib-label&gt;ldp-inlib-label&lt;/ldp-inlib-label&gt;     &lt;ldp-egress-label/&gt;     &lt;ldp-path-route&gt;...&lt;/ldp-path-route&gt;     &lt;ldp-reference-count&gt;ldp-reference-count&lt;/ldp-reference-count&gt;     &lt;ldp-route-transit/&gt;     &lt;ldp-global-label&gt;ldp-global-label&lt;/ldp-global-label&gt;     &lt;ldp-merged-next-hop/&gt;   &lt;/ldp-path&gt; &lt;/ldp-path-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;ldp-egress-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-global-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-ingress-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-inlib-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-inlib-session&gt;—No documentation is available yet.</p> <p>&lt;ldp-merged-next-hop&gt;—Both active and non-active next hop will be merged together.</p> <p>&lt;ldp-outlib-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-outlib-session&gt;—No documentation is available yet.</p> <p>&lt;ldp-path-route&gt;—No documentation is available yet.</p> <p>&lt;ldp-reference-count&gt;—No documentation is available yet.</p> <p>&lt;ldp-route-transit&gt;—No documentation is available yet.</p>

**<ldp-path-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;ldp-path-information&gt;     &lt;ldp-path&gt;...&lt;/ldp-path&gt;   &lt;/ldp-path-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;ldp-path&gt;   &lt;ldp-path-route&gt;     &lt;ldp-prefix&gt;ldp-prefix&lt;/ldp-prefix&gt;     &lt;ldp-route-ingress/&gt;   &lt;/ldp-path-route&gt; &lt;/ldp-path&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;ldp-prefix&gt;—No documentation is available yet.</p> <p>&lt;ldp-route-ingress&gt;—No documentation is available yet.</p>

**<ldp-route>**

<b>Usage</b>	<pre> &lt;ldp-route-information&gt;   &lt;ldp-route&gt;     &lt;ldp-prefix&gt;ldp-prefix&lt;/ldp-prefix&gt;     &lt;ldp-nexthop&gt;...&lt;/ldp-nexthop&gt;     &lt;ldp-label&gt;ldp-label&lt;/ldp-label&gt;     &lt;ldp-no-label/&gt;     &lt;ldp-topology-entry&gt;ldp-topology-entry&lt;/ldp-topology-entry&gt;     &lt;ldp-ingress-route-status&gt;ldp-ingress-route-status&lt;/ldp-ingress-route-status&gt;     &lt;ldp-ingress-route-last-modified-time&gt;ldp-ingress-route-last-modified-time       &lt;/ldp-ingress-route-last-modified-time&gt;     &lt;ldp-merged-next-hop/&gt;     &lt;ldp-oam-bfd-session&gt;...&lt;/ldp-oam-bfd-session&gt;   &lt;/ldp-route&gt; &lt;/ldp-route-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;ldp-ingress-route-last-modified-time&gt;—Time since the ingress route was modified.</p> <p>&lt;ldp-ingress-route-status&gt;—Status about whether the ingress route is present or not.</p> <p>&lt;ldp-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-merged-next-hop&gt;—Both active and non-active next hop will be merged together.</p> <p>&lt;ldp-nexthop&gt;—No documentation is available yet.</p> <p>&lt;ldp-no-label&gt;—No documentation is available yet.</p> <p>&lt;ldp-oam-bfd-session&gt;—LDP OAM state information.</p> <p>&lt;ldp-prefix&gt;—No documentation is available yet.</p> <p>&lt;ldp-topology-entry&gt;—No documentation is available yet.</p>

**<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
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<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>**

<b>Usage</b>	<pre> &lt;ldp-session-replication-information&gt;   &lt;ldp-session-replication&gt;     &lt;ldp-instance-id&gt;ldp-instance-id&lt;/ldp-instance-id&gt;     &lt;ldp-neighbor-address&gt;ldp-neighbor-address&lt;/ldp-neighbor-address&gt;     &lt;ldp-session-replication-state&gt;ldp-session-replication-state       &lt;/ldp-session-replication-state&gt;     &lt;ldp-reference-count&gt;ldp-reference-count&lt;/ldp-reference-count&gt;     &lt;ldp-session-replication-age&gt;ldp-session-replication-age       &lt;/ldp-session-replication-age&gt;   &lt;/ldp-session-replication&gt; &lt;/ldp-session-replication-information&gt; </pre>
<b>Description</b>	Session replication entry.
<b>Contents</b>	<p>&lt;ldp-instance-id&gt;—Routing instance identifier.</p> <p>&lt;ldp-neighbor-address&gt;—No documentation is available yet.</p> <p>&lt;ldp-reference-count&gt;—No documentation is available yet.</p> <p>&lt;ldp-session-replication-age&gt;—Age.</p> <p>&lt;ldp-session-replication-state&gt;—Session replication entry state.</p>

**<ldp-session-replication-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;ldp-session-replication-information&gt;     &lt;ldp-session-replication&gt;...&lt;/ldp-session-replication&gt;   &lt;/ldp-session-replication-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre> &lt;ldp-standby-route-information&gt;   &lt;ldp-standby-route&gt;     &lt;ldp-prefix&gt;ldp-prefix&lt;/ldp-prefix&gt;     &lt;ldp-standby-route-route/&gt;     &lt;ldp-standby-path-reference&gt;...&lt;/ldp-standby-path-reference&gt;   &lt;/ldp-standby-route&gt; &lt;/ldp-standby-route-information&gt; </pre>
<b>Description</b>	LDP standby route entry.
<b>Contents</b>	<p>&lt;ldp-prefix&gt;—No documentation is available yet.</p> <p>&lt;ldp-standby-path-reference&gt;—Route to label association entry.</p> <p>&lt;ldp-standby-route-route&gt;—Route present in LDP shadow routing table.</p>

**<ldp-standby-route-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;ldp-standby-route-information&gt;     &lt;ldp-standby-route&gt;...&lt;/ldp-standby-route&gt;   &lt;/ldp-standby-route-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<ldp-standby-route>—LDP standby route entry.

**<ldp-statistics>**

<b>Usage</b>	<pre> &lt;ldp-statistics-information&gt;   &lt;ldp-statistics&gt;     &lt;ldp-message-statistics&gt;...&lt;/ldp-message-statistics&gt;     &lt;ldp-event-statistics&gt;...&lt;/ldp-event-statistics&gt;   &lt;/ldp-statistics&gt; &lt;/ldp-statistics-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;ldp-event-statistics&gt;—No documentation is available yet.</p> <p>&lt;ldp-message-statistics&gt;—No documentation is available yet.</p>

**<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 acknowledgements received for unknown messages.

<lm-stale-nack>—Number of negative acknowledgements received for unknown messages.

<lm-wrong-state>—Number of messages received for control channel in wrong state.

**<lm-imp-control-channel-flags>**

**Usage** <lm-peer-imp-control-channels>  
     **<lm-imp-control-channel-flags>**  
         <cc-restarting/>  
     **</lm-imp-control-channel-flags>**  
 </lm-peer-imp-control-channels>

**Description** Peer control channel flags.

**Contents** <cc-restarting>—No documentation is available yet.

**<lm-output-statistics>**

<b>Usage</b>	<pre> &lt;lm-peer-statistics&gt;   &lt;lm-output-statistics&gt;     &lt;lm-sent-packets&gt;...&lt;/lm-sent-packets&gt;     &lt;lm-retransmit-packets&gt;...&lt;/lm-retransmit-packets&gt;     &lt;lm-tossed-packets&gt;...&lt;/lm-tossed-packets&gt;   &lt;/lm-output-statistics&gt; &lt;/lm-peer-statistics&gt; </pre>
<b>Description</b>	Output statistics.
<b>Contents</b>	<p>&lt;lm-retransmit-packets&gt;—Number of packets retransmitted.</p> <p>&lt;lm-sent-packets&gt;—Number of packets sent.</p> <p>&lt;lm-tossed-packets&gt;—Number of messages which failed retransmission.</p>

**<lm-peer-control-channels>**

<b>Usage</b>	<pre> &lt;lm-peer-information&gt;   &lt;lm-peer-control-channels&gt;     &lt;lm-control-channel-info&gt;...&lt;/lm-control-channel-info&gt;   &lt;/lm-peer-control-channels&gt; &lt;/lm-peer-information&gt; </pre>
<b>Description</b>	Link management control channels.
<b>Contents</b>	<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-channels>**

**Usage** <lm-peer-information>  
     **<lm-peer-lmp-control-channels>**  
         <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-ctrl-chnl-recd-msg-id*  
             </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-channels>**  
 </lm-peer-information>

**Description** Link management control channels.

**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-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>**

<b>Usage</b>	<pre> &lt;lm-statistics-information&gt;   &lt;lm-peer-statistics&gt;     &lt;lm-peer-name&gt;<i>lm-peer-name</i>&lt;/lm-peer-name&gt;     &lt;lm-input-statistics&gt;...&lt;/lm-input-statistics&gt;     &lt;lm-output-statistics&gt;...&lt;/lm-output-statistics&gt;   &lt;/lm-peer-statistics&gt; &lt;/lm-statistics-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;lm-input-statistics&gt;—Input statistics.</p> <p>&lt;lm-output-statistics&gt;—Output statistics.</p> <p>&lt;lm-peer-name&gt;—Name of object.</p>

**<lm-peer-te-links>**

<b>Usage</b>	<pre> &lt;lm-peer-information&gt;   &lt;lm-peer-te-links&gt;     &lt;lm-peer-te-link&gt;<i>lm-peer-te-link</i>&lt;/lm-peer-te-link&gt;   &lt;/lm-peer-te-links&gt; &lt;/lm-peer-information&gt; </pre>
<b>Description</b>	Link management peer TE links.
<b>Contents</b>	<lm-peer-te-link>—TE link name contained in peer.

**<lm-received-bad-packets>**

<b>Usage</b>	<pre> &lt;lm-input-statistics&gt;   &lt;lm-received-bad-packets&gt;     &lt;lm-packet-type&gt;<i>lm-packet-type</i>&lt;/lm-packet-type&gt;     &lt;lm-packet-count&gt;<i>lm-packet-count</i>&lt;/lm-packet-count&gt;   &lt;/lm-received-bad-packets&gt; &lt;/lm-input-statistics&gt; </pre>
<b>Description</b>	Number of bad packets received.
<b>Contents</b>	<p>&lt;lm-packet-count&gt;—Number of packets.</p> <p>&lt;lm-packet-type&gt;—Type of packet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;lm-resource-root-information&gt;   &lt;lm-resource&gt;     &lt;lm-resource-name&gt;lm-resource-name&lt;/lm-resource-name&gt;     &lt;lm-resource-type&gt;lm-resource-type&lt;/lm-resource-type&gt;     &lt;lm-resource-state&gt;lm-resource-state&lt;/lm-resource-state&gt;     &lt;lm-sys-id&gt;lm-sys-id&lt;/lm-sys-id&gt;     &lt;lm-resource-max-allocations&gt;lm-resource-max-allocations       &lt;/lm-resource-max-allocations&gt;     &lt;lm-resource-bandwidth&gt;lm-resource-bandwidth&lt;/lm-resource-bandwidth&gt;     &lt;lm-resource-traffic-params&gt;lm-resource-traffic-params       &lt;/lm-resource-traffic-params&gt;   &lt;/lm-resource&gt; &lt;/lm-resource-root-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;lm-resource-bandwidth&gt;—Total bandwidth of resource.</p> <p>&lt;lm-resource-max-allocations&gt;—Maximum number of allocations.</p> <p>&lt;lm-resource-name&gt;—Resource name.</p> <p>&lt;lm-resource-state&gt;—No documentation is available yet.</p> <p>&lt;lm-resource-traffic-params&gt;—Traffic parameters of resource.</p> <p>&lt;lm-resource-type&gt;—Resource type.</p> <p>&lt;lm-sys-id&gt;—System identifier of object.</p>

**<lm-resource-allocation-context>**

<b>Usage</b>	<pre> &lt;lm-te-link-resource&gt;   &lt;lm-resource-allocation-context&gt;     &lt;lm-allocated-bandwidth&gt;lm-allocated-bandwidth&lt;/lm-allocated-bandwidth&gt;     &lt;lm-allocated-lsp-name&gt;lm-allocated-lsp-name&lt;/lm-allocated-lsp-name&gt;     &lt;lm-local-label&gt;lm-local-label&lt;/lm-local-label&gt;     &lt;lm-remote-label&gt;lm-remote-label&lt;/lm-remote-label&gt;   &lt;/lm-resource-allocation-context&gt; &lt;/lm-te-link-resource&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;lm-allocated-bandwidth&gt;—No documentation is available yet.</p> <p>&lt;lm-allocated-lsp-name&gt;—No documentation is available yet.</p> <p>&lt;lm-local-label&gt;—No documentation is available yet.</p> <p>&lt;lm-remote-label&gt;—No documentation is available yet.</p>

**<lm-resource-root-information>**

<b>Usage</b>	<pre> &lt;lm-information&gt;   &lt;lm-resource-root-information&gt;     &lt;lm-source&gt;lm-source&lt;/lm-source&gt;     &lt;lm-resource&gt;...&lt;/lm-resource&gt;   &lt;/lm-resource-root-information&gt; &lt;/lm-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;lm-resource&gt;—No documentation is available yet.</p> <p>&lt;lm-source&gt;—Source of information.</p>

**<lm-retransmit-packets>**

<b>Usage</b>	<pre> &lt;lm-output-statistics&gt;   &lt;lm-retransmit-packets&gt;     &lt;lm-packet-type&gt;lm-packet-type&lt;/lm-packet-type&gt;     &lt;lm-packet-count&gt;lm-packet-count&lt;/lm-packet-count&gt;   &lt;/lm-retransmit-packets&gt; &lt;/lm-output-statistics&gt; </pre>
<b>Description</b>	Number of packets retransmitted.
<b>Contents</b>	<p>&lt;lm-packet-count&gt;—Number of packets.</p> <p>&lt;lm-packet-type&gt;—Type of packet.</p>

**<lm-sent-packets>**

<b>Usage</b>	<pre> &lt;lm-output-statistics&gt;   &lt;lm-sent-packets&gt;     &lt;lm-packet-type&gt;lm-packet-type&lt;/lm-packet-type&gt;     &lt;lm-packet-count&gt;lm-packet-count&lt;/lm-packet-count&gt;   &lt;/lm-sent-packets&gt; &lt;/lm-output-statistics&gt; </pre>
<b>Description</b>	Number of packets sent.
<b>Contents</b>	<p>&lt;lm-packet-count&gt;—Number of packets.</p> <p>&lt;lm-packet-type&gt;—Type of packet.</p>



**<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.

**<Im-te-link-local-flags>**

**Usage**   <Im-te-link-information>  
               **<Im-te-link-local-flags>**  
               <Im-te-link-nack-sent-flag/>  
               **</Im-te-link-local-flags>**  
               </Im-te-link-information>

**Description**   No documentation is available yet.

**Contents**   <Im-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>**

<b>Usage</b>	<pre> &lt;aspath-domain&gt;   &lt;local-asn&gt;     &lt;asn&gt;asn&lt;/asn&gt;     &lt;as-loops&gt;as-loops&lt;/as-loops&gt;   &lt;/local-asn&gt; &lt;/aspath-domain&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;as-loops&gt;—No documentation is available yet.</p> <p>&lt;asn&gt;—Autonomous system number.</p>

**<local-interface>**

<b>Usage</b>	<pre> &lt;connection&gt;   &lt;local-interface&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;interface-status&gt;interface-status&lt;/interface-status&gt;     &lt;interface-encapsulation&gt;interface-encapsulation&lt;/interface-encapsulation&gt;     &lt;working-status&gt;working-status&lt;/working-status&gt;     &lt;interface-description&gt;interface-description&lt;/interface-description&gt;   &lt;/local-interface&gt; &lt;/connection&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-description&gt;—No documentation is available yet.</p> <p>&lt;interface-encapsulation&gt;—No documentation is available yet.</p> <p>&lt;interface-name&gt;—No documentation is available yet.</p> <p>&lt;interface-status&gt;—No documentation is available yet.</p> <p>&lt;working-status&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre> &lt;rsvp-statistics-information   rsvp-interface&gt;   &lt;message-statistics&gt;     &lt;rsvp-message&gt;rsvp-message&lt;/rsvp-message&gt;     &lt;messages-sent&gt;messages-sent&lt;/messages-sent&gt;     &lt;messages-received&gt;messages-received&lt;/messages-received&gt;     &lt;messages-sent-5seconds&gt;messages-sent-5seconds&lt;/messages-sent-5seconds&gt;     &lt;messages-received-5seconds&gt;messages-received-5seconds       &lt;/messages-received-5seconds&gt;   &lt;/message-statistics&gt; &lt;/rsvp-statistics-information   rsvp-interface&gt; </pre>
<b>Description</b>	Statistics per RSVP message type.
<b>Contents</b>	<p>&lt;messages-received&gt;—Total number of messages received.</p> <p>&lt;messages-received-5seconds&gt;—Number of messages received in the last 5 seconds.</p> <p>&lt;messages-sent&gt;—Total number of messages sent.</p> <p>&lt;messages-sent-5seconds&gt;—Number of messages sent in the last 5 seconds.</p> <p>&lt;rsvp-message&gt;—No documentation is available yet.</p>

**<mgm-configured-parameters>**

<b>Usage</b>	<pre> &lt;igmp-interface-information   mld-interface-information&gt;   &lt;mgm-configured-parameters&gt;     &lt;query-interval&gt;query-interval&lt;/query-interval&gt;     &lt;query-response-interval&gt;query-response-interval&lt;/query-response-interval&gt;     &lt;last-member-query-interval&gt;last-member-query-interval       &lt;/last-member-query-interval&gt;     &lt;robustness-count&gt;robustness-count&lt;/robustness-count&gt;   &lt;/mgm-configured-parameters&gt; &lt;/igmp-interface-information   mld-interface-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;last-member-query-interval&gt;—No documentation is available yet.</p> <p>&lt;query-interval&gt;—No documentation is available yet.</p> <p>&lt;query-response-interval&gt;—No documentation is available yet.</p> <p>&lt;robustness-count&gt;—No documentation is available yet.</p>

**<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>**  
 </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-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-group-policy>mgm-group-policy</mgm-group-policy>
  <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-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-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-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-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*</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-rr>—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-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-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-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>

**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>  
         <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.

`<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>`—Unique 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-recd*</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 associated 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 designated 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-reverse-oif-mapping>*interface-reverse-oif-mapping*  
             </interface-reverse-oif-mapping>  
         <interface-subscriber-leave-timer>*interface-subscriber-leave-timer*  
             </interface-subscriber-leave-timer>  
     **</multicast-interface>**  
 </multicast-interface-information>

**Description** Information about a multicast interface.

**Contents** <interface-max-bandwidth>—Maximum bandwidth for multicast flows.  
 <interface-name>—No documentation is available yet.  
 <interface-remaining-bandwidth>—Remaining bandwidth for multicast flows.  
 <interface-reverse-oif-mapping>—Reverse OIF mapping 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-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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;multicast-scope-information&gt;     &lt;multicast-scope-policy&gt;<i>multicast-scope-policy</i>&lt;/multicast-scope-policy&gt;     &lt;multicast-scope-policy-interfaces&gt;...&lt;/multicast-scope-policy-interfaces&gt;     &lt;multicast-scope&gt;...&lt;/multicast-scope&gt;   &lt;/multicast-scope-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;multicast-scope&gt;—No documentation is available yet.</p> <p>&lt;multicast-scope-policy&gt;—No documentation is available yet.</p> <p>&lt;multicast-scope-policy-interfaces&gt;—No documentation is available yet.</p>

**<multicast-scope-policy-interface>**

<b>Usage</b>	<pre> &lt;multicast-scope-policy-interfaces&gt;   &lt;multicast-scope-policy-interface&gt;     &lt;interface-name&gt;<i>interface-name</i>&lt;/interface-name&gt;     &lt;scope-rejects&gt;<i>scope-rejects</i>&lt;/scope-rejects&gt;   &lt;/multicast-scope-policy-interface&gt; &lt;/multicast-scope-policy-interfaces&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-name&gt;—No documentation is available yet.</p> <p>&lt;scope-rejects&gt;—Number of rejects in multicast scope.</p>

**<multicast-scope-policy-interfaces>**

<b>Usage</b>	<pre> &lt;multicast-scope-information&gt;   &lt;multicast-scope-policy-interfaces&gt;     &lt;instance-name&gt;<i>instance-name</i>&lt;/instance-name&gt;     &lt;address-family&gt;<i>address-family</i>&lt;/address-family&gt;     &lt;multicast-scope-policy-interface&gt;...&lt;/multicast-scope-policy-interface&gt;   &lt;/multicast-scope-policy-interfaces&gt; &lt;/multicast-scope-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;address-family&gt;—No documentation is available yet.</p> <p>&lt;instance-name&gt;—No documentation is available yet.</p> <p>&lt;multicast-scope-policy-interface&gt;—No documentation is available yet.</p>

**<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-route | ospf3-route>  
     **<next-hop-address>**  
         <interface-address>*interface-address*</interface-address>  
         <lsp-name>*lsp-name*</lsp-name>  
     **</next-hop-address>**  
 </ospf-route | ospf3-route>
- 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>  
     **<next-hop-element>**  
         <interface-name>*interface-name*</interface-name>  
         <isis-next-hop>*isis-next-hop*</isis-next-hop>  
         <snpa>*snpa*</snpa>  
     **</next-hop-element>**  
 </isis-spf-result>
- Description** No documentation is available yet.
- Contents** <interface-name>—No documentation is available yet.  
             <isis-next-hop>—No documentation is available yet.  
             <snpa>—No documentation is available yet.

**<next-hop-name>**

<b>Usage</b>	<ospf-route   ospf3-route> <b>&lt;next-hop-name&gt;</b> <interface-name> <i>interface-name</i> </interface-name> <interface-link-name> <i>interface-link-name</i> </interface-link-name> <b>&lt;/next-hop-name&gt;</b> </ospf-route   ospf3-route>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<interface-link-name>—No documentation is available yet. <interface-name>—No documentation is available yet.

**<next-hops-family>**

<b>Usage</b>	<multicast-next-hops-information   krt-iflist-nexthop-information> <b>&lt;next-hops-family&gt;</b> <address-family> <i>address-family</i> </address-family> <iflist-next-hop>...</iflist-next-hop> <b>&lt;/next-hops-family&gt;</b> </multicast-next-hops-information   krt-iflist-nexthop-information>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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/>  
 <weight>*weight*</weight>  
 <balance>*balance*</balance>  
 <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.  
 <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).  
 <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.

**<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>**

<b>Usage</b>	<pre> &lt;ospf-database-information&gt;   &lt;ospf-database&gt;     &lt;lsa-type&gt;lsa-type&lt;/lsa-type&gt;     &lt;our-entry/&gt;     &lt;lsa-id&gt;lsa-id&lt;/lsa-id&gt;     &lt;advertising-router&gt;advertising-router&lt;/advertising-router&gt;     &lt;sequence-number&gt;sequence-number&lt;/sequence-number&gt;     &lt;age&gt;age&lt;/age&gt;     &lt;ospf-do-not-age/&gt;     &lt;options&gt;options&lt;/options&gt;     &lt;checksum&gt;checksum&lt;/checksum&gt;     &lt;lsa-length&gt;lsa-length&lt;/lsa-length&gt;     &lt;ospf-router-lsa&gt;...&lt;/ospf-router-lsa&gt;     &lt;ospf-network-lsa&gt;...&lt;/ospf-network-lsa&gt;     &lt;ospf-opaque-area-lsa&gt;...&lt;/ospf-opaque-area-lsa&gt;     &lt;ospf-opaque-link-local-lsa&gt;...&lt;/ospf-opaque-link-local-lsa&gt;     &lt;ospf-summary-lsa&gt;...&lt;/ospf-summary-lsa&gt;     &lt;ospf-external-lsa&gt;...&lt;/ospf-external-lsa&gt;     &lt;ospf-database-extensive&gt;...&lt;/ospf-database-extensive&gt;   &lt;/ospf-database&gt; &lt;/ospf-database-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;advertising-router&gt;—No documentation is available yet.</p> <p>&lt;age&gt;—No documentation is available yet.</p> <p>&lt;checksum&gt;—No documentation is available yet.</p> <p>&lt;lsa-id&gt;—No documentation is available yet.</p> <p>&lt;lsa-length&gt;—No documentation is available yet.</p> <p>&lt;lsa-type&gt;—No documentation is available yet.</p> <p>&lt;options&gt;—No documentation is available yet.</p> <p>&lt;ospf-database-extensive&gt;—No documentation is available yet.</p> <p>&lt;ospf-do-not-age&gt;—DoNotAge bit is set on the link-state advertisement received.</p> <p>&lt;ospf-external-lsa&gt;—No documentation is available yet.</p> <p>&lt;ospf-network-lsa&gt;—No documentation is available yet.</p> <p>&lt;ospf-opaque-area-lsa&gt;—No documentation is available yet.</p> <p>&lt;ospf-opaque-link-local-lsa&gt;—No documentation is available yet.</p> <p>&lt;ospf-router-lsa&gt;—No documentation is available yet.</p> <p>&lt;ospf-summary-lsa&gt;—No documentation is available yet.</p>

<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>**

```

<run-header-error>run-header-error</run-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>**

&lt;/ospf-io-statistics | ospf-statistics&gt;

**Description** No documentation is available yet.**Contents** <area-mismatch-error>—No documentation is available yet.

&lt;authentication-failure-error&gt;—No documentation is available yet.

&lt;authentication-mismatch-error&gt;—No documentation is available yet.

&lt;bad-packettype-error&gt;—No documentation is available yet.

&lt;bad-version-error&gt;—No documentation is available yet.

&lt;checksum-error&gt;—No documentation is available yet.

&lt;dead-interval-mismatch-error&gt;—No documentation is available yet.

&lt;default-exclusion-mismatch-error&gt;—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>
  <adj-count>adj-count</adj-count>
  <router-priority>router-priority</router-priority>
  <interface-secondary/>
  <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-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-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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;ospf-overview-information&gt;     &lt;ospf-overview&gt;...&lt;/ospf-overview&gt;   &lt;/ospf-overview-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<ospf-overview>—Overview information for an OSPF instance.

**<ospf-route>**

**Usage** <ospf-topology-route-table>  
     **<ospf-route>**  
         <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>  
         <next-hop-name>...</next-hop-name>  
         <next-hop-address>...</next-hop-address>  
         <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>**  
 </ospf-topology-route-table>

**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-address>—No documentation is available yet.

<next-hop-name>—No documentation is available yet.

<next-hop-type>—No documentation is available yet.

<optional-capability>—VEB bits received in the router LSA.

<ospf-area>—Area ID.

<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-5secs</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-db-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>**

<b>Usage</b>	<pre> &lt;ospf-summary-lsa&gt;   &lt;ospf-summary-lsa-topology&gt;     &lt;ospf-topology-name&gt;ospf-topology-name&lt;/ospf-topology-name&gt;     &lt;ospf-topology-id&gt;ospf-topology-id&lt;/ospf-topology-id&gt;     &lt;ospf-topology-metric&gt;ospf-topology-metric&lt;/ospf-topology-metric&gt;   &lt;/ospf-summary-lsa-topology&gt; &lt;/ospf-summary-lsa&gt; </pre>
<b>Description</b>	OSPF topology specific information for a summary LSA.
<b>Contents</b>	<p>&lt;ospf-topology-id&gt;—OSPF topology id.</p> <p>&lt;ospf-topology-metric&gt;—OSPF topology specific metric.</p> <p>&lt;ospf-topology-name&gt;—OSPF topology name.</p>

**<ospf-topology-log>**

<b>Usage</b>	<pre> &lt;ospf-log-information&gt;   &lt;ospf-topology-log&gt;     &lt;ospf-topology-name&gt;ospf-topology-name&lt;/ospf-topology-name&gt;     &lt;ospf-log-instance&gt;...&lt;/ospf-log-instance&gt;     &lt;ospf-log-maximum-length&gt;...&lt;/ospf-log-maximum-length&gt;     &lt;ospf-log-events&gt;...&lt;/ospf-log-events&gt;   &lt;/ospf-topology-log&gt; &lt;/ospf-log-information&gt; </pre>
<b>Description</b>	OSPF topology specific SPF log information.
<b>Contents</b>	<p>&lt;ospf-log-events&gt;—No documentation is available yet.</p> <p>&lt;ospf-log-instance&gt;—No documentation is available yet.</p> <p>&lt;ospf-log-maximum-length&gt;—No documentation is available yet.</p> <p>&lt;ospf-topology-name&gt;—OSPF topology name.</p>

**<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>  
 <adj-count>*adj-count*</adj-count>  
 <router-priority>*router-priority*</router-priority>  
 <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-name>—No documentation is available yet.

<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>**

<b>Usage</b>	<pre> &lt;ospf3-router-lsa&gt;   &lt;ospf3-link&gt;     &lt;link-type-name&gt;link-type-name&lt;/link-type-name&gt;     &lt;link-type-value&gt;link-type-value&lt;/link-type-value&gt;     &lt;link-intf-id&gt;link-intf-id&lt;/link-intf-id&gt;     &lt;nbr-intf-id&gt;nbr-intf-id&lt;/nbr-intf-id&gt;     &lt;nbr-rtr-id&gt;nbr-rtr-id&lt;/nbr-rtr-id&gt;     &lt;link-metric&gt;link-metric&lt;/link-metric&gt;   &lt;/ospf3-link&gt; &lt;/ospf3-router-lsa&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;link-intf-id&gt;—No documentation is available yet.</p> <p>&lt;link-metric&gt;—No documentation is available yet.</p> <p>&lt;link-type-name&gt;—No documentation is available yet.</p> <p>&lt;link-type-value&gt;—No documentation is available yet.</p> <p>&lt;nbr-intf-id&gt;—No documentation is available yet.</p> <p>&lt;nbr-rtr-id&gt;—No documentation is available yet.</p>

**<ospf3-link-lsa>**

<b>Usage</b>	<pre> &lt;ospf3-database&gt;   &lt;ospf3-link-lsa&gt;     &lt;linklocal-address&gt;linklocal-address&lt;/linklocal-address&gt;     &lt;ospf3-options&gt;ospf3-options&lt;/ospf3-options&gt;     &lt;router-priority&gt;router-priority&lt;/router-priority&gt;     &lt;prefix-count&gt;prefix-count&lt;/prefix-count&gt;     &lt;ospf3-prefix&gt;ospf3-prefix&lt;/ospf3-prefix&gt;     &lt;ospf3-prefix-options&gt;ospf3-prefix-options&lt;/ospf3-prefix-options&gt;   &lt;/ospf3-link-lsa&gt; &lt;/ospf3-database&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;linklocal-address&gt;—No documentation is available yet.</p> <p>&lt;ospf3-options&gt;—No documentation is available yet.</p> <p>&lt;ospf3-prefix&gt;—No documentation is available yet.</p> <p>&lt;ospf3-prefix-options&gt;—No documentation is available yet.</p> <p>&lt;prefix-count&gt;—Number of prefixes accepted before action is taken.</p> <p>&lt;router-priority&gt;—Router priority used in DR election on broadcast or NBMA interface.</p>

**<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>  
 <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-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>**  
 <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>  
 <next-hop-name>...</next-hop-name>  
 <next-hop-address>...</next-hop-address>  
 <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>**  
 </ospf3-route-information>

**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-address>—No documentation is available yet.

<next-hop-name>—No documentation is available yet.

<next-hop-type>—No documentation is available yet.

<optional-capability>—VEB bits received in the router LSA.

<ospf-area>—Area ID.

<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-interface-name>*mdt-default-interface-name*  
             </mdt-default-interface-name>  
         <mdt-tunnel-direction>*mdt-tunnel-direction*</mdt-tunnel-direction>  
         <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-tunnel-information>—No documentation is available yet.

<mdt-pim-instance>—No documentation is available yet.

<mdt-tunnel-direction>—No documentation is available yet.

<pim-instance>—Name of the PIM instance.

**<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>**

<b>Usage</b>	<pre> &lt;pim-neighbor&gt;   &lt;pim-neighbor-join&gt;     &lt;multicast-group-address&gt;multicast-group-address&lt;/multicast-group-address&gt;     &lt;multicast-source-address&gt;multicast-source-address&lt;/multicast-source-address&gt;     &lt;join-timeout&gt;join-timeout&lt;/join-timeout&gt;   &lt;/pim-neighbor-join&gt; &lt;/pim-neighbor&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;join-timeout&gt;—No documentation is available yet.</p> <p>&lt;multicast-group-address&gt;—Group address.</p> <p>&lt;multicast-source-address&gt;—Source address.</p>

**<pim-neighbors-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;pim-neighbors-information&gt;     &lt;pim-instance&gt;pim-instance&lt;/pim-instance&gt;     &lt;pim-interface&gt;...&lt;/pim-interface&gt;   &lt;/pim-neighbors-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;pim-instance&gt;—Name of the PIM instance.</p> <p>&lt;pim-interface&gt;—No documentation is available yet.</p>

**<pim-other-statistic>**

<b>Usage</b>	<pre> &lt;pim-statistics-other&gt;   &lt;pim-other-statistic&gt;     &lt;statistic-name&gt;statistic-name&lt;/statistic-name&gt;     &lt;statistic-count&gt;statistic-count&lt;/statistic-count&gt;   &lt;/pim-other-statistic&gt; &lt;/pim-statistics-other&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;statistic-count&gt;—No documentation is available yet.</p> <p>&lt;statistic-name&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<p>&lt;pim-statistics-interface   pim-statistics-global&gt;</p> <p><b>&lt;pim-statistic&gt;</b></p> <p>&lt;statistic-name&gt;<i>statistic-name</i>&lt;/statistic-name&gt;</p> <p>&lt;received-count&gt;<i>received-count</i>&lt;/received-count&gt;</p> <p>&lt;sent-count&gt;<i>sent-count</i>&lt;/sent-count&gt;</p> <p>&lt;error-count&gt;<i>error-count</i>&lt;/error-count&gt;</p> <p><b>&lt;/pim-statistic&gt;</b></p> <p>&lt;/pim-statistics-interface   pim-statistics-global&gt;</p>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;error-count&gt;—Total number of errors encountered.</p> <p>&lt;received-count&gt;—No documentation is available yet.</p> <p>&lt;sent-count&gt;—No documentation is available yet.</p> <p>&lt;statistic-name&gt;—No documentation is available yet.</p>

**<pim-statistics-all>**

<b>Usage</b>	<p>&lt;pim-statistics-information&gt;</p> <p><b>&lt;pim-statistics-all&gt;</b></p> <p>&lt;pim-instance&gt;<i>pim-instance</i>&lt;/pim-instance&gt;</p> <p>&lt;pim-statistics-global&gt;...&lt;/pim-statistics-global&gt;</p> <p>&lt;pim-statistics-other&gt;...&lt;/pim-statistics-other&gt;</p> <p><b>&lt;/pim-statistics-all&gt;</b></p> <p>&lt;/pim-statistics-information&gt;</p>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;pim-instance&gt;—Name of the PIM instance.</p> <p>&lt;pim-statistics-global&gt;—No documentation is available yet.</p> <p>&lt;pim-statistics-other&gt;—No documentation is available yet.</p>

**<pim-statistics-global>**

<b>Usage</b>	<p>&lt;pim-statistics-all   everything&gt;</p> <p><b>&lt;pim-statistics-global&gt;</b></p> <p>&lt;pim-statistic&gt;...&lt;/pim-statistic&gt;</p> <p><b>&lt;/pim-statistics-global&gt;</b></p> <p>&lt;/pim-statistics-all   everything&gt;</p>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pim-statistic>—No documentation is available yet.

**<pim-statistics-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;pim-statistics-information&gt;     &lt;statistics-family&gt;...&lt;/statistics-family&gt;     &lt;pim-statistics-all&gt;...&lt;/pim-statistics-all&gt;     &lt;everything&gt;...&lt;/everything&gt;   &lt;/pim-statistics-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;everything&gt;—No documentation is available yet.</p> <p>&lt;pim-statistics-all&gt;—No documentation is available yet.</p> <p>&lt;statistics-family&gt;—No documentation is available yet.</p>

**<pim-statistics-interface>**

<b>Usage</b>	<pre> &lt;statistics-family&gt;   &lt;pim-statistics-interface&gt;     &lt;pim-interface-name&gt;pim-interface-name&lt;/pim-interface-name&gt;     &lt;pim-statistic&gt;...&lt;/pim-statistic&gt;   &lt;/pim-statistics-interface&gt; &lt;/statistics-family&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;pim-interface-name&gt;—Name of PIM interface.</p> <p>&lt;pim-statistic&gt;—No documentation is available yet.</p>

**<pim-statistics-other>**

<b>Usage</b>	<pre> &lt;pim-statistics-all   everything&gt;   &lt;pim-statistics-other&gt;     &lt;pim-other-statistic&gt;...&lt;/pim-other-statistic&gt;   &lt;/pim-statistics-other&gt; &lt;/pim-statistics-all   everything&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<pim-other-statistic>—No documentation is available yet.

**<prefix-element>**

<b>Usage</b>	<pre> &lt;isis-spf-result&gt;   &lt;prefix-element&gt;     &lt;address-prefix&gt;address-prefix&lt;/address-prefix&gt;     &lt;prefix-metric&gt;prefix-metric&lt;/prefix-metric&gt;     &lt;external-prefix-metric&gt;external-prefix-metric&lt;/external-prefix-metric&gt;   &lt;/prefix-element&gt; &lt;/isis-spf-result&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;address-prefix&gt;—No documentation is available yet.</p> <p>&lt;external-prefix-metric&gt;—No documentation is available yet.</p> <p>&lt;prefix-metric&gt;—No documentation is available yet.</p>

**<prefix-limit>**

<b>Usage</b>	<pre> &lt;bgp-option-information&gt;   &lt;prefix-limit&gt;     &lt;nlri-type&gt;nlri-type&lt;/nlri-type&gt;     &lt;prefix-count&gt;prefix-count&lt;/prefix-count&gt;     &lt;limit-action&gt;limit-action&lt;/limit-action&gt;     &lt;warning-percentage&gt;warning-percentage&lt;/warning-percentage&gt;   &lt;/prefix-limit&gt; &lt;/bgp-option-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;limit-action&gt;—Action taken upon reaching limit.</p> <p>&lt;nlri-type&gt;—Type of NLRI being limited.</p> <p>&lt;prefix-count&gt;—Number of prefixes accepted before action is taken.</p> <p>&lt;warning-percentage&gt;—Percentage of limit at which to log a warning.</p>

**<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>**

<b>Usage</b>	<pre> &lt;rt-entry   node   krt-nexthop&gt;   &lt;protocol-nh&gt;     &lt;to&gt;to&lt;/to&gt;     &lt;metric&gt;metric&lt;/metric&gt;     &lt;indirect-nh&gt;indirect-nh&lt;/indirect-nh&gt;     &lt;composite-nh&gt;composite-nh&lt;/composite-nh&gt;     &lt;vpnlabel-nh&gt;vpnlabel-nh&lt;/vpnlabel-nh&gt;     &lt;mpls-label&gt;mpls-label&lt;/mpls-label&gt;     &lt;balance&gt;balance&lt;/balance&gt;     &lt;forwarding-nh-count&gt;forwarding-nh-count&lt;/forwarding-nh-count&gt;     &lt;nh-type&gt;nh-type&lt;/nh-type&gt;     &lt;nh&gt;...&lt;/nh&gt;   &lt;/protocol-nh&gt; &lt;/rt-entry   node   krt-nexthop&gt; </pre>
<b>Description</b>	Protocol next hop.
<b>Contents</b>	<p>&lt;balance&gt;—Next-hop balance.</p> <p>&lt;composite-nh&gt;—No documentation is available yet.</p> <p>&lt;forwarding-nh-count&gt;—Number of indirect path forwarding next hops.</p> <p>&lt;indirect-nh&gt;—No documentation is available yet.</p> <p>&lt;metric&gt;—No documentation is available yet.</p> <p>&lt;mpls-label&gt;—Label of MPLS packet.</p> <p>&lt;nh&gt;—Next-hop gateway information.</p> <p>&lt;nh-type&gt;—Special next hop: Reject, Blackhole, Receive, Multicast, Local, or Unused.</p> <p>&lt;to&gt;—Neighbor address to which to send (next-hop address).</p> <p>&lt;vpnlabel-nh&gt;—No documentation is available yet.</p>

**<protocols>**

<b>Usage</b>	<pre> &lt;route-table&gt;   &lt;protocols&gt;     &lt;protocol-name&gt;protocol-name&lt;/protocol-name&gt;     &lt;protocol-route-count&gt;protocol-route-count&lt;/protocol-route-count&gt;     &lt;active-route-count&gt;active-route-count&lt;/active-route-count&gt;   &lt;/protocols&gt; &lt;/route-table&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;active-route-count&gt;—Active routes.</p> <p>&lt;protocol-name&gt;—No documentation is available yet.</p> <p>&lt;protocol-route-count&gt;—Total protocol routes.</p>

**<protocols-tlv>**

<b>Usage</b>	<pre> &lt;isis-tlv&gt;   &lt;protocols-tlv&gt;     &lt;protocol&gt;protocol&lt;/protocol&gt;   &lt;/protocols-tlv&gt; &lt;/isis-tlv&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<protocol>—No documentation is available yet.

**<provider-tunnel>**

<b>Usage</b>	<pre> &lt;instance   instance-entry&gt;   &lt;provider-tunnel&gt;     &lt;provider-tunnel-id&gt;provider-tunnel-id&lt;/provider-tunnel-id&gt;   &lt;/provider-tunnel&gt; &lt;/instance   instance-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<provider-tunnel-id>—Provider tunnel identifier.



**<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-pnt-anycast-pim-rpset>  
         <rendezvous-point-anycast-pim-local-address>*rendez-pnt-anycast-pim-local-addr*  
             </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>**

<b>Usage</b>	<pre> &lt;rendezvous-point-trees&gt;   &lt;rendezvous-point-addresses&gt;     &lt;rendezvous-point-address&gt;rendezvous-point-address&lt;/rendezvous-point-address&gt;     &lt;rendezvous-point-hash&gt;rendezvous-point-hash&lt;/rendezvous-point-hash&gt;   &lt;/rendezvous-point-addresses&gt; &lt;/rendezvous-point-trees&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rendezvous-point-address&gt;—Address of rendezvous point.</p> <p>&lt;rendezvous-point-hash&gt;—No documentation is available yet.</p>

**<rendezvous-point-anycast-pim-rpset>**

<b>Usage</b>	<pre> &lt;rendezvous-point&gt;   &lt;rendezvous-point-anycast-pim-rpset&gt;     &lt;multicast-group-address&gt;multicast-group-address&lt;/multicast-group-address&gt;   &lt;/rendezvous-point-anycast-pim-rpset&gt; &lt;/rendezvous-point&gt; </pre>
<b>Description</b>	IPv4 address of one or more remote anycast RPs.
<b>Contents</b>	<multicast-group-address>—Group address.

**<rendezvous-point-anycast-register-state>**

<b>Usage</b>	<pre> &lt;rendezvous-point&gt;   &lt;rendezvous-point-anycast-register-state&gt;     &lt;multicast-group-address&gt;multicast-group-address&lt;/multicast-group-address&gt;     &lt;multicast-source-address&gt;multicast-source-address&lt;/multicast-source-address&gt;     &lt;pim-anycast-register-state-origin&gt;pim-anycast-register-state-origin       &lt;/pim-anycast-register-state-origin&gt;   &lt;/rendezvous-point-anycast-register-state&gt; &lt;/rendezvous-point&gt; </pre>
<b>Description</b>	Anycast register state.
<b>Contents</b>	<p>&lt;multicast-group-address&gt;—Group address.</p> <p>&lt;multicast-source-address&gt;—Source address.</p> <p>&lt;pim-anycast-register-state-origin&gt;—Origin of anycast register state.</p>



**<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 RIPv6.

**<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-learned-routes>*rip-neighbor-learned-routes*  
 </rip-neighbor-learned-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-learned-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 RIPvng.

**<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>**

<b>Usage</b>	<pre> &lt;isis-tlv&gt;   &lt;router-id-tlv&gt;     &lt;router-id&gt;router-id&lt;/router-id&gt;   &lt;/router-id-tlv&gt; &lt;/isis-tlv&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<router-id>—No documentation is available yet.

**<rp-family>**

<b>Usage</b>	<pre> &lt;pim-rps-information&gt;   &lt;rp-family&gt;     &lt;address-family&gt;address-family&lt;/address-family&gt;     &lt;rendezvous-point&gt;...&lt;/rendezvous-point&gt;   &lt;/rp-family&gt; &lt;/pim-rps-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<address-family>—No documentation is available yet. <rendezvous-point>—No documentation is available yet.

**<rpf-family>**

<b>Usage</b>	<pre> &lt;multicast-rpf-information&gt;   &lt;rpf-family&gt;     &lt;address-family&gt;address-family&lt;/address-family&gt;     &lt;rpf-table-name&gt;rpf-table-name&lt;/rpf-table-name&gt;     &lt;rpf-table-entry-count&gt;rpf-table-entry-count&lt;/rpf-table-entry-count&gt;     &lt;rpf-route&gt;...&lt;/rpf-route&gt;   &lt;/rpf-family&gt; &lt;/multicast-rpf-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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-self-id>*path-state-self-id*</path-state-self-id>  
 <path-state-tag>*path-state-tag*</path-state-tag>  
 <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>  
**</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-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-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-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>  
         <self-id>self-id</self-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.  
     <replication-state>—Session replication state.  
     <self-id>—Unique identifier for RSVP path state control block.  
     <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>
<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-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>—Unique 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>...</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.

<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-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>**

<b>Usage</b>	<pre> &lt;route-information&gt;   &lt;rt-ribgroup&gt;     &lt;rt-ribgroup-name&gt;rt-ribgroup-name&lt;/rt-ribgroup-name&gt;     &lt;rt-ribgroup-address&gt;rt-ribgroup-address&lt;/rt-ribgroup-address&gt;     &lt;rt-ribgroup-flags&gt;rt-ribgroup-flags&lt;/rt-ribgroup-flags&gt;     &lt;rt-ribgroup-address-family&gt;rt-ribgroup-address-family       &lt;/rt-ribgroup-address-family&gt;     &lt;rt-ribgroup-refcount&gt;rt-ribgroup-refcount&lt;/rt-ribgroup-refcount&gt;     &lt;rt-ribgroup-export-name&gt;rt-ribgroup-export-name&lt;/rt-ribgroup-export-name&gt;     &lt;rt-ribgroup-import-name&gt;rt-ribgroup-import-name&lt;/rt-ribgroup-import-name&gt;     &lt;rt-ribgroup-import-policy-name&gt;rt-ribgroup-import-policy-name       &lt;/rt-ribgroup-import-policy-name&gt;     &lt;rt-ribgroup-import-secondary-name&gt;rt-ribgroup-import-secondary-name       &lt;/rt-ribgroup-import-secondary-name&gt;     &lt;rt-ribgroup-union-head-name&gt;rt-ribgroup-union-head-name       &lt;/rt-ribgroup-union-head-name&gt;     &lt;rt-ribgroup-union-child-name&gt;rt-ribgroup-union-child-name       &lt;/rt-ribgroup-union-child-name&gt;   &lt;/rt-ribgroup&gt; &lt;/route-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rt-ribgroup-address&gt;—Rib-group address.</p> <p>&lt;rt-ribgroup-address-family&gt;—Rib-group address family.</p> <p>&lt;rt-ribgroup-export-name&gt;—Export RIB name.</p> <p>&lt;rt-ribgroup-flags&gt;—Rib-group flags.</p> <p>&lt;rt-ribgroup-import-name&gt;—Import RIB name.</p> <p>&lt;rt-ribgroup-import-policy-name&gt;—Import policy name.</p> <p>&lt;rt-ribgroup-import-secondary-name&gt;—Import secondary RIB name.</p> <p>&lt;rt-ribgroup-name&gt;—Rib-group name.</p> <p>&lt;rt-ribgroup-refcount&gt;—Rib-group refcount.</p> <p>&lt;rt-ribgroup-union-child-name&gt;—Rib-group union child name.</p> <p>&lt;rt-ribgroup-union-head-name&gt;—Rib-group union head name.</p>

**<rt-test-policy>**

<b>Usage</b>	<pre> &lt;route-information&gt;   &lt;rt-test-policy&gt;     &lt;rt-policy-name&gt;<i>rt-policy-name</i>&lt;/rt-policy-name&gt;     &lt;rt-route-accepted&gt;<i>rt-route-accepted</i>&lt;/rt-route-accepted&gt;     &lt;rt-route-rejected&gt;<i>rt-route-rejected</i>&lt;/rt-route-rejected&gt;   &lt;/rt-test-policy&gt; &lt;/route-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rt-policy-name&gt;—No documentation is available yet.</p> <p>&lt;rt-route-accepted&gt;—No documentation is available yet.</p> <p>&lt;rt-route-rejected&gt;—No documentation is available yet.</p>

**<rt-test-policy-prefix>**

<b>Usage</b>	<pre> &lt;route-information&gt;   &lt;rt-test-policy-prefix&gt;     &lt;rt-policy-name&gt;<i>rt-policy-name</i>&lt;/rt-policy-name&gt;     &lt;rt-destination&gt;<i>rt-destination</i>&lt;/rt-destination&gt;     &lt;rt-prefix-length&gt;<i>rt-prefix-length</i>&lt;/rt-prefix-length&gt;     &lt;rt-test-policy-term&gt;...&lt;/rt-test-policy-term&gt;   &lt;/rt-test-policy-prefix&gt; &lt;/route-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rt-destination&gt;—No documentation is available yet.</p> <p>&lt;rt-policy-name&gt;—No documentation is available yet.</p> <p>&lt;rt-prefix-length&gt;—No documentation is available yet.</p> <p>&lt;rt-test-policy-term&gt;—No documentation is available yet.</p>

**<rt-test-policy-term>**

<b>Usage</b>	<pre> &lt;rt-test-policy-prefix&gt;   &lt;rt-test-policy-term&gt;     &lt;rt-policy-term-name&gt;<i>rt-policy-term-name</i>&lt;/rt-policy-term-name&gt;     &lt;rt-policy-term-result&gt;<i>rt-policy-term-result</i>&lt;/rt-policy-term-result&gt;     &lt;rt-policy-term-action&gt;<i>rt-policy-term-action</i>&lt;/rt-policy-term-action&gt;   &lt;/rt-test-policy-term&gt; &lt;/rt-test-policy-prefix&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rt-policy-term-action&gt;—No documentation is available yet.</p> <p>&lt;rt-policy-term-name&gt;—No documentation is available yet.</p> <p>&lt;rt-policy-term-result&gt;—No documentation is available yet.</p>

**<rtd-flow-dep>**

<b>Usage</b>	<pre> &lt;rt-entry&gt;   &lt;rtd-flow-dep&gt;     &lt;flow-origin&gt;<i>flow-origin</i>&lt;/flow-origin&gt;     &lt;flow-dep-state&gt;<i>flow-dep-state</i>&lt;/flow-dep-state&gt;     &lt;flow-ucast-rt&gt;...&lt;/flow-ucast-rt&gt;   &lt;/rtd-flow-dep&gt; &lt;/rt-entry&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;flow-dep-state&gt;—Flow dependency state.</p> <p>&lt;flow-origin&gt;—Originator of the flow information.</p> <p>&lt;flow-ucast-rt&gt;—Unicast route used for resolution.</p>

**<rte-instance>**

<b>Usage</b>	<pre> &lt;rteexport-table-information&gt;   &lt;rte-instance&gt;     &lt;instance-name&gt;instance-name&lt;/instance-name&gt;     &lt;rte-instance-type&gt;rte-instance-type&lt;/rte-instance-type&gt;     &lt;instance-flags&gt;instance-flags&lt;/instance-flags&gt;     &lt;instance-options&gt;instance-options&lt;/instance-options&gt;     &lt;import-policy&gt;import-policy&lt;/import-policy&gt;     &lt;export-policy&gt;export-policy&lt;/export-policy&gt;   &lt;/rte-instance&gt; &lt;/rteexport-table-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;export-policy&gt;—No documentation is available yet.</p> <p>&lt;import-policy&gt;—No documentation is available yet.</p> <p>&lt;instance-flags&gt;—No documentation is available yet.</p> <p>&lt;instance-name&gt;—No documentation is available yet.</p> <p>&lt;instance-options&gt;—No documentation is available yet.</p> <p>&lt;rte-instance-type&gt;—No documentation is available yet.</p>

**<rte-table>**

<b>Usage</b>	<pre> &lt;rteexport-table-information&gt;   &lt;rte-table&gt;     &lt;table-name&gt;table-name&lt;/table-name&gt;     &lt;table-export-on&gt;table-export-on&lt;/table-export-on&gt;     &lt;import-list&gt;import-list&lt;/import-list&gt;     &lt;table-flags&gt;table-flags&lt;/table-flags&gt;     &lt;table-usage&gt;table-usage&lt;/table-usage&gt;   &lt;/rte-table&gt; &lt;/rteexport-table-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;import-list&gt;—No documentation is available yet.</p> <p>&lt;table-export-on&gt;—No documentation is available yet.</p> <p>&lt;table-flags&gt;—No documentation is available yet.</p> <p>&lt;table-name&gt;—Unicast routing table.</p> <p>&lt;table-usage&gt;—Number of exported routes.</p>

**<rte-target>**

**Usage** <rteexport-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>**  
 </rteexport-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.

**<rteexport-table-information>**

**Usage** <rpc-reply>  
     **<rteexport-table-information>**  
         <rte-table>...</rte-table>  
         <rte-target>...</rte-target>  
         <rte-instance>...</rte-instance>  
     **</rteexport-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>**

<b>Usage</b>	<pre> &lt;multicast-session&gt;   &lt;session-connection-data&gt;     &lt;session-address&gt;session-address&lt;/session-address&gt;     &lt;session-ttl&gt;session-ttl&lt;/session-ttl&gt;     &lt;session-layers&gt;session-layers&lt;/session-layers&gt;   &lt;/session-connection-data&gt; &lt;/multicast-session&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;session-address&gt;—No documentation is available yet.</p> <p>&lt;session-layers&gt;—No documentation is available yet.</p> <p>&lt;session-ttl&gt;—No documentation is available yet.</p>

**<session-origin>**

<b>Usage</b>	<pre> &lt;multicast-session&gt;   &lt;session-origin&gt;     &lt;session-originator-username&gt;session-originator-username     &lt;/session-originator-username&gt;     &lt;session-originator-address&gt;session-originator-address     &lt;/session-originator-address&gt;   &lt;/session-origin&gt; &lt;/multicast-session&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;session-originator-address&gt;—No documentation is available yet.</p> <p>&lt;session-originator-username&gt;—No documentation is available yet.</p>

**<source-family>**

<b>Usage</b>	<pre> &lt;pim-source-information&gt;   &lt;source-family&gt;     &lt;pim-instance&gt;pim-instance&lt;/pim-instance&gt;     &lt;address-family&gt;address-family&lt;/address-family&gt;     &lt;pim-source&gt;...&lt;/pim-source&gt;   &lt;/source-family&gt; &lt;/pim-source-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;address-family&gt;—No documentation is available yet.</p> <p>&lt;pim-instance&gt;—Name of the PIM instance.</p> <p>&lt;pim-source&gt;—No documentation is available yet.</p>

**<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>**

<b>Usage</b>	<pre>&lt;task-information   task-timer-information&gt;   &lt;task&gt;     &lt;task-name&gt;task-name&lt;/task-name&gt;     &lt;task-no-information/&gt;     &lt;task-timer&gt;...&lt;/task-timer&gt;   &lt;/task&gt; &lt;/task-information   task-timer-information&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;task-name&gt;—Name of this task.</p> <p>&lt;task-no-information&gt;—No information is available for this task.</p> <p>&lt;task-timer&gt;—No documentation is available yet.</p>

**<task-block>**

<b>Usage</b>	<pre> &lt;task-block-list&gt;   &lt;task-block&gt;     &lt;tb-name&gt;<i>tb-name</i>&lt;/tb-name&gt;     &lt;tb-size&gt;<i>tb-size</i>&lt;/tb-size&gt;     &lt;tb-alloc-size&gt;<i>tb-alloc-size</i>&lt;/tb-alloc-size&gt;     &lt;tb-terse-transient/&gt;     &lt;tb-terse-fullpage/&gt;     &lt;tb-terse-debug/&gt;     &lt;tb-alloc-blocks&gt;<i>tb-alloc-blocks</i>&lt;/tb-alloc-blocks&gt;     &lt;tb-alloc-bytes&gt;<i>tb-alloc-bytes</i>&lt;/tb-alloc-bytes&gt;     &lt;tb-max-alloc-blocks&gt;<i>tb-max-alloc-blocks</i>&lt;/tb-max-alloc-blocks&gt;     &lt;tb-max-alloc-bytes&gt;<i>tb-max-alloc-bytes</i>&lt;/tb-max-alloc-bytes&gt;   &lt;/task-block&gt; &lt;/task-block-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;tb-alloc-blocks&gt;—Number of allocated structures.</p> <p>&lt;tb-alloc-bytes&gt;—Number of allocated bytes.</p> <p>&lt;tb-alloc-size&gt;—Allocated size for this block.</p> <p>&lt;tb-max-alloc-blocks&gt;—Maximum number of structures ever allocated.</p> <p>&lt;tb-max-alloc-bytes&gt;—Maximum number of bytes ever allocated.</p> <p>&lt;tb-name&gt;—Name for this block.</p> <p>&lt;tb-size&gt;—Actual size of this block.</p> <p>&lt;tb-terse-debug&gt;—No documentation is available yet.</p> <p>&lt;tb-terse-fullpage&gt;—No documentation is available yet.</p> <p>&lt;tb-terse-transient&gt;—No documentation is available yet.</p>

**<task-block-list>**

<b>Usage</b>	<pre> &lt;task-memory-allocator-report&gt;   &lt;task-block-list&gt;     &lt;task-block&gt;...&lt;/task-block&gt;   &lt;/task-block-list&gt; &lt;/task-memory-allocator-report&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<task-block>—No documentation is available yet.

**<task-information>**

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;task-information&gt;     &lt;task&gt;...&lt;/task&gt;   &lt;/task-information&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<task>—No documentation is available yet.

**<task-lite-page>**

<b>Usage</b>	<pre>&lt;task-lite-page-list&gt;   &lt;task-lite-page&gt;     &lt;tlp-name&gt;tlp-name&lt;/tlp-name&gt;     &lt;tlp-alloc-pages&gt;tlp-alloc-pages&lt;/tlp-alloc-pages&gt;     &lt;tlp-alloc-bytes&gt;tlp-alloc-bytes&lt;/tlp-alloc-bytes&gt;     &lt;tlp-max-alloc-pages&gt;tlp-max-alloc-pages&lt;/tlp-max-alloc-pages&gt;     &lt;tlp-max-alloc-bytes&gt;tlp-max-alloc-bytes&lt;/tlp-max-alloc-bytes&gt;   &lt;/task-lite-page&gt; &lt;/task-lite-page-list&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;tlp-alloc-bytes&gt;—Number of bytes allocated.</p> <p>&lt;tlp-alloc-pages&gt;—Number of pages allocated.</p> <p>&lt;tlp-max-alloc-bytes&gt;—Maximum bytes ever allocated.</p> <p>&lt;tlp-max-alloc-pages&gt;—Maximum pages ever allocated.</p> <p>&lt;tlp-name&gt;—Name of this pool.</p>

**<task-lite-page-list>**

<b>Usage</b>	<pre>&lt;task-memory-allocator-report&gt;   &lt;task-lite-page-list&gt;     &lt;task-lite-page&gt;...&lt;/task-lite-page&gt;   &lt;/task-lite-page-list&gt; &lt;/task-memory-allocator-report&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<task-lite-page>—No documentation is available yet.

**<task-malloc>**

<b>Usage</b>	<pre> &lt;task-malloc-list&gt;   &lt;task-malloc&gt;     &lt;tm-name&gt;<i>tm-name</i>&lt;/tm-name&gt;     &lt;tm-allocs&gt;<i>tm-allocs</i>&lt;/tm-allocs&gt;     &lt;tm-alloc-bytes&gt;<i>tm-alloc-bytes</i>&lt;/tm-alloc-bytes&gt;     &lt;tm-max-allocs&gt;<i>tm-max-allocs</i>&lt;/tm-max-allocs&gt;     &lt;tm-max-alloc-bytes&gt;<i>tm-max-alloc-bytes</i>&lt;/tm-max-alloc-bytes&gt;     &lt;tm-function-calls&gt;<i>tm-function-calls</i>&lt;/tm-function-calls&gt;   &lt;/task-malloc&gt; &lt;/task-malloc-list&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;tm-alloc-bytes&gt;—Number of bytes allocated.</p> <p>&lt;tm-allocs&gt;—Number of allocations out.</p> <p>&lt;tm-function-calls&gt;—Number of function calls.</p> <p>&lt;tm-max-alloc-bytes&gt;—Maximum bytes allocated.</p> <p>&lt;tm-max-allocs&gt;—Maximum allocations ever out.</p> <p>&lt;tm-name&gt;—No documentation is available yet.</p>

**<task-malloc-list>**

<b>Usage</b>	<pre> &lt;task-memory-malloc-usage-report&gt;   &lt;task-malloc-list&gt;     &lt;task-malloc&gt;...&lt;/task-malloc&gt;   &lt;/task-malloc-list&gt; &lt;/task-memory-malloc-usage-report&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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** <nlrri-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 automatic 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-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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;b&gt;vpls-ldp-label-repository-information&lt;/b&gt;     &lt;vpls-ldp-label-repository-entity&gt;...&lt;/vpls-ldp-label-repository-entity&gt;   &lt;/b&gt;vpls-ldp-label-repository-information&lt;/b&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Information about VPLS label replication using LDP signaling.
<b>Contents</b>	<vpls-ldp-label-repository-entity>—Information about VPLS label replication using LDP signaling.

**<vpls-protocol-state>**

<b>Usage</b>	<pre> &lt;instance&gt;   &lt;b&gt;vpls-protocol-state&lt;/b&gt;     &lt;vpls-signaling-protocol-identifier&gt;vpls-signaling-protocol-identifier&lt;/vpls-signaling-protocol-identifier&gt;     &lt;num-local-interfaces&gt;num-local-interfaces&lt;/num-local-interfaces&gt;     &lt;num-local-interfaces-up&gt;num-local-interfaces-up&lt;/num-local-interfaces-up&gt;     &lt;irb-present&gt;irb-present&lt;/irb-present&gt;     &lt;mesh-group-count&gt;mesh-group-count&lt;/mesh-group-count&gt;     &lt;mesh-group-up-count&gt;mesh-group-up-count&lt;/mesh-group-up-count&gt;     &lt;mesh-group-interfaces&gt;...&lt;/mesh-group-interfaces&gt;     &lt;interface&gt;...&lt;/interface&gt;     &lt;mesh-group-connection&gt;...&lt;/mesh-group-connection&gt;     &lt;reference-site&gt;...&lt;/reference-site&gt;   &lt;/b&gt;vpls-protocol-state&lt;/b&gt; &lt;/instance&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface&gt;—No documentation is available yet.</p> <p>&lt;irb-present&gt;—No documentation is available yet.</p> <p>&lt;mesh-group-connection&gt;—Information about all vc-connections of a specific mesh-group.</p> <p>&lt;mesh-group-count&gt;—No documentation is available yet.</p> <p>&lt;mesh-group-interfaces&gt;—Information about all interfaces associated with a mesh-group.</p> <p>&lt;mesh-group-up-count&gt;—No documentation is available yet.</p> <p>&lt;num-local-interfaces&gt;—No documentation is available yet.</p> <p>&lt;num-local-interfaces-up&gt;—No documentation is available yet.</p> <p>&lt;reference-site&gt;—No documentation is available yet.</p> <p>&lt;vpls-signaling-protocol-identifier&gt;—No documentation is available yet.</p>

**<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

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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/9.3R1/junos-rpm>. To review the DTD for the tags, see “DTD for RPM Response Tags” on page 2023.

### <active-servers>

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;active-servers&gt;     &lt;configured-servers&gt;...&lt;/configured-servers&gt;   &lt;/active-servers&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<configured-servers>—No documentation is available yet.

### <configured-servers>

<b>Usage</b>	<pre>&lt;active-servers&gt;   &lt;configured-servers&gt;     &lt;protocol&gt;protocol&lt;/protocol&gt;     &lt;port&gt;port&lt;/port&gt;     &lt;destination-interface&gt;destination-interface&lt;/destination-interface&gt;   &lt;/configured-servers&gt; &lt;/active-servers&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;destination-interface&gt;—Name of output interface for probes.</p> <p>&lt;port&gt;—Port.</p> <p>&lt;protocol&gt;—Protocol.</p>

**<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/9.3R1/junos-sdx`. To review the DTD for the tags, see “DTD for SDX Response Tags” on page 2029.

### <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>**

<b>Usage</b>	<pre> &lt;sdx-information&gt;   &lt;notification-information&gt;     &lt;notification-count&gt;<i>notification-count</i>&lt;/notification-count&gt;     &lt;elapsed-time&gt;<i>elapsed-time</i>&lt;/elapsed-time&gt;   &lt;/notification-information&gt; &lt;/sdx-information&gt; </pre>
<b>Description</b>	Notification statistics.
<b>Contents</b>	<p>&lt;elapsed-time&gt;—No documentation is available yet.</p> <p>&lt;notification-count&gt;—Number of notifications sent since process started.</p>

**<peer-information>**

<b>Usage</b>	<pre> &lt;sdx-information&gt;   &lt;peer-information&gt;     &lt;elapsed-time&gt;<i>elapsed-time</i>&lt;/elapsed-time&gt;   &lt;/peer-information&gt; &lt;/sdx-information&gt; </pre>
<b>Description</b>	Peer statistics.
<b>Contents</b>	<elapsed-time>—No documentation is available yet.

**<sdx-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;sdx-information&gt;     &lt;unconfigured/&gt;     &lt;connection-status&gt;...&lt;/connection-status&gt;     &lt;keepalive-information&gt;...&lt;/keepalive-information&gt;     &lt;notification-information&gt;...&lt;/notification-information&gt;     &lt;peer-information&gt;...&lt;/peer-information&gt;   &lt;/sdx-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Information about service deployment application.
<b>Contents</b>	<p>&lt;connection-status&gt;—Status of the connection to SDX.</p> <p>&lt;keepalive-information&gt;—Keepalive settings and statistics.</p> <p>&lt;notification-information&gt;—Notification statistics.</p> <p>&lt;peer-information&gt;—Peer statistics.</p> <p>&lt;unconfigured&gt;—SDX daemon is not configured.</p>

## 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/9.3R1/junos-services-accounting>. To review the DTD for the tags, see “DTD for Services Accounting Response Tags” on page 2031.

**<detail-entry>**

**Usage** <flow-detail | flow-aggregate-template-detail-ipv4 | flow-aggregate-template-detail-mpls | flow-aggregate-template-detail-mpls-ipv4 | 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>
<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-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-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-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>**

<b>Usage</b>	<pre> &lt;services-accounting-information&gt;   &lt;error-information&gt;     &lt;error-packets-dropped-no-memory&gt;error-packets-dropped-no-memory     &lt;/error-packets-dropped-no-memory&gt;     &lt;error-packets-dropped-not-ip&gt;error-packets-dropped-not-ip     &lt;/error-packets-dropped-not-ip&gt;     &lt;error-packets-dropped-not-ipv4&gt;error-packets-dropped-not-ipv4     &lt;/error-packets-dropped-not-ipv4&gt;     &lt;error-packets-too-small&gt;error-packets-too-small&lt;/error-packets-too-small&gt;     &lt;error-allocation-failures&gt;error-allocation-failures     &lt;/error-allocation-failures&gt;     &lt;error-free-failures&gt;error-free-failures&lt;/error-free-failures&gt;     &lt;error-free-list-failures&gt;error-free-list-failures&lt;/error-free-list-failures&gt;     &lt;error-memory-warning&gt;error-memory-warning&lt;/error-memory-warning&gt;     &lt;error-memory-overload&gt;error-memory-overload&lt;/error-memory-overload&gt;     &lt;error-packets-per-second-overload&gt;error-packets-per-second-overload     &lt;/error-packets-per-second-overload&gt;     &lt;error-bytes-per-second-overload&gt;error-bytes-per-second-overload     &lt;/error-bytes-per-second-overload&gt;   &lt;/error-information&gt; &lt;/services-accounting-information&gt; </pre>
<b>Description</b>	Service accounting error information.
<b>Contents</b>	<p><b>&lt;error-allocation-failures&gt;</b>—Number of failed attempts to allocate memory.</p> <p><b>&lt;error-bytes-per-second-overload&gt;</b>—Whether the number of incoming bytes exceeds the designed per-second limit.</p> <p><b>&lt;error-free-failures&gt;</b>—Number of failed attempts to free memory.</p> <p><b>&lt;error-free-list-failures&gt;</b>—Number of operations that failed because free list memory is exhausted.</p> <p><b>&lt;error-memory-overload&gt;</b>—Whether memory is exhausted.</p> <p><b>&lt;error-memory-warning&gt;</b>—Reached low memory condition.</p> <p><b>&lt;error-packets-dropped-no-memory&gt;</b>—Number of packets dropped because memory is exhausted.</p> <p><b>&lt;error-packets-dropped-not-ip&gt;</b>—Number of packets dropped because they are not IP.</p> <p><b>&lt;error-packets-dropped-not-ipv4&gt;</b>—Number of packets dropped because they are not IPv4.</p> <p><b>&lt;error-packets-per-second-overload&gt;</b>—Whether the number of incoming packets exceeds the designed per-second limit.</p> <p><b>&lt;error-packets-too-small&gt;</b>—Number of packets dropped because their header is too small.</p>

**<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>**  
 </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-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-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>**

<b>Usage</b>	<pre> &lt;services-accounting-information&gt;   &lt;flow-information&gt;     &lt;flow-packets&gt;flow-packets&lt;/flow-packets&gt;     &lt;flow-bytes&gt;flow-bytes&lt;/flow-bytes&gt;     &lt;flow-packets-ten-second-rate&gt;flow-packets-ten-second-rate       &lt;/flow-packets-ten-second-rate&gt;     &lt;flow-bytes-ten-second-rate&gt;flow-bytes-ten-second-rate       &lt;/flow-bytes-ten-second-rate&gt;     &lt;active-flows&gt;active-flows&lt;/active-flows&gt;     &lt;flows&gt;flows&lt;/flows&gt;     &lt;flows-exported&gt;flows-exported&lt;/flows-exported&gt;     &lt;flow-packets-exported&gt;flow-packets-exported&lt;/flow-packets-exported&gt;     &lt;flows-expired&gt;flows-expired&lt;/flows-expired&gt;     &lt;flows-aged&gt;flows-aged&lt;/flows-aged&gt;   &lt;/flow-information&gt; &lt;/services-accounting-information&gt; </pre>
<b>Description</b>	Service accounting flow information.
<b>Contents</b>	<pre> &lt;active-flows&gt;—Active flows.  &lt;flow-bytes&gt;—Flow bytes.  &lt;flow-bytes-ten-second-rate&gt;—Flow bytes 10-second rate.  &lt;flow-packets&gt;—Flow packets.  &lt;flow-packets-exported&gt;—Flows packets exported.  &lt;flow-packets-ten-second-rate&gt;—Flow packets 10-second rate.  &lt;flows&gt;—Flows.  &lt;flows-aged&gt;—Flows active timed out.  &lt;flows-expired&gt;—Flows inactive timed out.  &lt;flows-exported&gt;—Flows exported. </pre>

**<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>**

<b>Usage</b>	<pre> &lt;services-accounting-information&gt;   &lt;usage-information&gt;     &lt;uptime&gt;uptime&lt;/uptime&gt;     &lt;inttime&gt;inttime&lt;/inttime&gt;     &lt;five-second-load&gt;five-second-load&lt;/five-second-load&gt;     &lt;one-minute-load&gt;one-minute-load&lt;/one-minute-load&gt;   &lt;/usage-information&gt; &lt;/services-accounting-information&gt; </pre>
<b>Description</b>	Service accounting CPU utilization.
<b>Contents</b>	<p>&lt;five-second-load&gt;—5-second load.</p> <p>&lt;inttime&gt;—CPU interrupt time, in microseconds.</p> <p>&lt;one-minute-load&gt;—1-minute load.</p> <p>&lt;uptime&gt;—CPU uptime, in milliseconds.</p>

**<v9-error-information>**

<b>Usage</b>	<pre> &lt;services-accounting-information&gt;   &lt;v9-error-information&gt;     &lt;service-set-dropped&gt;service-set-dropped&lt;/service-set-dropped&gt;     &lt;active-timeout-failures&gt;active-timeout-failures&lt;/active-timeout-failures&gt;     &lt;export-packet-failures&gt;export-packet-failures&lt;/export-packet-failures&gt;     &lt;flow-creation-failures&gt;flow-creation-failures&lt;/flow-creation-failures&gt;     &lt;memory-overload&gt;memory-overload&lt;/memory-overload&gt;   &lt;/v9-error-information&gt; &lt;/services-accounting-information&gt; </pre>
<b>Description</b>	Jflow-v9 accounting error information.
<b>Contents</b>	<p>&lt;active-timeout-failures&gt;—Number of active timeout failures.</p> <p>&lt;export-packet-failures&gt;—Number of export packet failures.</p> <p>&lt;flow-creation-failures&gt;—Number of flow creation failures.</p> <p>&lt;memory-overload&gt;—Memory overload status.</p> <p>&lt;service-set-dropped&gt;—Number of service set drops.</p>

## Summary of Services Flow Collector Response Tags

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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/9.3R1/junos-services-flow-collector>. To review the DTD for the tags, see “DTD for Services Flow Collector Response Tags” on page 2037.

### <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>**

<b>Usage</b>	<pre> &lt;services-flow-collector-information&gt;   &lt;file-information&gt;     &lt;file&gt;...&lt;/file&gt;   &lt;/file-information&gt; &lt;/services-flow-collector-information&gt; </pre>
<b>Description</b>	Service flow collector information about files.
<b>Contents</b>	<file>—File statistics.

**<input>**

<b>Usage</b>	<pre> &lt;input-information&gt;   &lt;input&gt;     &lt;input-interface&gt;input-interface&lt;/input-interface&gt;     &lt;packets&gt;packets&lt;/packets&gt;     &lt;bytes&gt;bytes&lt;/bytes&gt;   &lt;/input&gt; &lt;/input-information&gt; </pre>
<b>Description</b>	Input interface statistics.
<b>Contents</b>	<bytes>—Bytes.  <input-interface>—Input interface.  <packets>—Packets.

**<input-information>**

<b>Usage</b>	<pre> &lt;services-flow-collector-information&gt;   &lt;input-information&gt;     &lt;input&gt;...&lt;/input&gt;   &lt;/input-information&gt; &lt;/services-flow-collector-information&gt; </pre>
<b>Description</b>	Service flow collector information for each input.
<b>Contents</b>	<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 Shutdown Response Tags

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This section lists JUNOS XML tags that contain operational information about routing platform shutdown. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-shutdown>. To review the DTD for the tags, see “DTD for Shutdown Response Tags” on page 2041.

### <clear-reboot-status>

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;clear-reboot-status&gt;     &lt;reboot-information-results&gt;reboot-information-results     &lt;/reboot-information-results&gt;     &lt;clear-reboot-status-results&gt;clear-reboot-status-results     &lt;/clear-reboot-status-results&gt;   &lt;/clear-reboot-status&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Clear any pending reboots.
<b>Contents</b>	<p>&lt;clear-reboot-status-results&gt;—Status of clear reboot request.</p> <p>&lt;reboot-information-results&gt;—Reboot status.</p>

### <reboot-information>

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;reboot-information&gt;     &lt;reboot-information-results&gt;reboot-information-results     &lt;/reboot-information-results&gt;   &lt;/reboot-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<reboot-information-results>—Reboot status.

### <request-reboot-results>

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;request-reboot-results&gt;     &lt;request-reboot-status&gt;request-reboot-status&lt;/request-reboot-status&gt;   &lt;/request-reboot-results&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<request-reboot-status>—Reboot request status.



## Summary of SNMP Response Tags

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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/9.3R1/junos-snmp>. To review the DTD for the tags, see “DTD for SNMP Response Tags” on page 2043.

### **<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>  
     **</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.

**<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>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;rmon-information&gt;     &lt;rmon-alarm-information&gt;...&lt;/rmon-alarm-information&gt;     &lt;rmon-event-information&gt;...&lt;/rmon-event-information&gt;     &lt;rmon-history-information&gt;...&lt;/rmon-history-information&gt;   &lt;/rmon-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rmon-alarm-information&gt;—No documentation is available yet.</p> <p>&lt;rmon-event-information&gt;—No documentation is available yet.</p> <p>&lt;rmon-history-information&gt;—No documentation is available yet.</p>

**<rmon-log>**

<b>Usage</b>	<pre> &lt;rmon-log-information&gt;   &lt;rmon-log&gt;     &lt;rmon-log-event-index&gt;rmon-log-event-index&lt;/rmon-log-event-index&gt;     &lt;rmon-log-index&gt;rmon-log-index&lt;/rmon-log-index&gt;     &lt;rmon-log-descr&gt;rmon-log-descr&lt;/rmon-log-descr&gt;     &lt;rmon-log-time&gt;rmon-log-time&lt;/rmon-log-time&gt;   &lt;/rmon-log&gt; &lt;/rmon-log-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;rmon-log-descr&gt;—Log description.</p> <p>&lt;rmon-log-event-index&gt;—Event instance identifier.</p> <p>&lt;rmon-log-index&gt;—Log instance identifier.</p> <p>&lt;rmon-log-time&gt;—Time this event was last generated.</p>

**<rmon-log-information>**

<b>Usage</b>	<pre> &lt;health-monitor-information&gt;   &lt;rmon-log-information&gt;     &lt;rmon-log&gt;...&lt;/rmon-log&gt;   &lt;/rmon-log-information&gt; &lt;/health-monitor-information&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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-nests>*get-nests*</get-nests>  
         <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-nests>—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>**

<b>Usage</b>	<pre> &lt;snmp-statistics&gt;   &lt;sub-agent-registration&gt;     &lt;group-registers&gt;group-registers&lt;/group-registers&gt;     &lt;group-deregisters&gt;group-deregisters&lt;/group-deregisters&gt;     &lt;group-removes&gt;group-removes&lt;/group-removes&gt;   &lt;/sub-agent-registration&gt; &lt;/snmp-statistics&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;group-deregisters&gt;—No documentation is available yet.</p> <p>&lt;group-registers&gt;—No documentation is available yet.</p> <p>&lt;group-removes&gt;—No documentation is available yet.</p>

**<trap-queue-stats>**

<b>Usage</b>	<pre> &lt;snmp-statistics&gt;   &lt;trap-queue-stats&gt;     &lt;current-queued&gt;current-queued&lt;/current-queued&gt;     &lt;total-queued&gt;total-queued&lt;/total-queued&gt;     &lt;total-discards&gt;total-discards&lt;/total-discards&gt;     &lt;total-overflows&gt;total-overflows&lt;/total-overflows&gt;   &lt;/trap-queue-stats&gt; &lt;/snmp-statistics&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;current-queued&gt;—No documentation is available yet.</p> <p>&lt;total-discards&gt;—No documentation is available yet.</p> <p>&lt;total-overflows&gt;—No documentation is available yet.</p> <p>&lt;total-queued&gt;—No documentation is available yet.</p>

**<trap-throttle-stats>**

<b>Usage</b>	<pre> &lt;snmp-statistics&gt;   &lt;trap-throttle-stats&gt;     &lt;current-throttled&gt;current-throttled&lt;/current-throttled&gt;     &lt;total-throttles&gt;total-throttles&lt;/total-throttles&gt;   &lt;/trap-throttle-stats&gt; &lt;/snmp-statistics&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;current-throttled&gt;—No documentation is available yet.</p> <p>&lt;total-throttles&gt;—No documentation is available yet.</p>

## Summary of Telephony Gateway Module Response Tags

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This section lists JUNOS XML tags that contain operational 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/9.3R1/junos-tgmd>. To review the DTD for the tags, see “DTD for Telephony Gateway Module Response Tags” on page 2063.

### <dynamic-cac-information>

**Usage** <tgmd-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>**  
 </tgmd-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** <tgmd-information>  
     **<media-gateway-controller-configuration>**  
         <media-gateway-controller>*media-gateway-controller*</media-gateway-controller>  
     **</media-gateway-controller-configuration>**  
 </tgmd-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.

**<tgmdynamic-cac-information>**

- Usage** <rpc-reply>  
     **<tgmdynamic-cac-information>**  
         <tgmdynamic-cac-reported-bearer-bandwidth-limit>*tgmdynamic-cac-reported-bearer-bandwidth-limit*  
             </tgmdynamic-cac-reported-bearer-bandwidth-limit>  
         <tgmdynamic-cac-list>...</tgmdynamic-cac-list>  
     **</tgmdynamic-cac-information>**  
 </rpc-reply>
- Description** Information about dynamic call admission control.
- Contents** <tgmdynamic-cac-list>—List of dynamic call admission control configured interfaces.
- <tgmdynamic-cac-reported-bearer-bandwidth-limit>—Reported bearer bandwidth limit.

**<tgmdynamic-cac-list>**

- Usage** <tgmdynamic-cac-information>  
     **<tgmdynamic-cac-list>**  
         <dynamic-cac-information>...</dynamic-cac-information>  
     **</tgmdynamic-cac-list>**  
 </tgmdynamic-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 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/9.3R1/junos-subscribers>. To review the DTD for the tags, see “DTD for Subscribers Response Tags” on page 2053.

### **<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>**

<b>Usage</b>	<pre> &lt;subscribers-information&gt;   &lt;subscriber&gt;     &lt;access-type&gt;access-type&lt;/access-type&gt;     &lt;user-name&gt;user-name&lt;/user-name&gt;     &lt;ip-address&gt;ip-address&lt;/ip-address&gt;     &lt;logical-system&gt;logical-system&lt;/logical-system&gt;     &lt;routing-instance&gt;routing-instance&lt;/routing-instance&gt;     &lt;interface&gt;interface&lt;/interface&gt;     &lt;vlan-id&gt;vlan-id&lt;/vlan-id&gt;     &lt;profile&gt;profile&lt;/profile&gt;     &lt;mac-address&gt;mac-address&lt;/mac-address&gt;     &lt;login-time&gt;login-time&lt;/login-time&gt;     &lt;number-of-subscribers&gt;number-of-subscribers&lt;/number-of-subscribers&gt;     &lt;no-information&gt;no-information&lt;/no-information&gt;   &lt;/subscriber&gt; &lt;/subscribers-information&gt; </pre>
<b>Description</b>	Active subscriber.
<b>Contents</b>	<p>&lt;access-type&gt;—Access type of subscriber.</p> <p>&lt;interface&gt;—Interface name of subscriber.</p> <p>&lt;ip-address&gt;—IP address of subscriber.</p> <p>&lt;logical-system&gt;—Logical system where the subscriber resides.</p> <p>&lt;login-time&gt;—Login time of subscriber.</p> <p>&lt;mac-address&gt;—MAC address of subscriber.</p> <p>&lt;no-information&gt;—No documentation is available yet.</p> <p>&lt;number-of-subscribers&gt;—Number of active subscribers that match with search criteria.</p> <p>&lt;profile&gt;—Dynamic profile with which subscriber is activated.</p> <p>&lt;routing-instance&gt;—Routing instance where the subscriber resides.</p> <p>&lt;user-name&gt;—User name of subscriber.</p> <p>&lt;vlan-id&gt;—VLAN identifier.</p>

**<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 UDP Forwarding Helper Response Tags

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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/9.3R1/junos-helper>. To review the DTD for the tags, see “DTD for UDP Forwarding Helper Response Tags” on page 2065.

### **<helper-statistics-information>**

<b>Usage</b>	<pre> &lt;rpc-reply&gt;   &lt;helper-statistics-information&gt;     &lt;helper-statistics-service-information&gt;...   &lt;/helper-statistics-service-information&gt;   &lt;/helper-statistics-information&gt; &lt;/rpc-reply&gt; </pre>
<b>Description</b>	Port forwarding helper statistics.
<b>Contents</b>	<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 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/9.3R1/junos-process>. To review the DTD for the tags, see DTD for System Process Response Tags on page 2055

### **<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>**

<b>Usage</b>	<pre> &lt;process&gt;   &lt;process-flags&gt;     &lt;interruptible/&gt;     &lt;advisory-lock/&gt;     &lt;controlling-terminal/&gt;     &lt;in-memory/&gt;     &lt;wait-child/&gt;     &lt;profiling/&gt;     &lt;select/&gt;     &lt;set-id-privileges/&gt;     &lt;system-process/&gt;     &lt;timing-out/&gt;     &lt;debug-trace/&gt;     &lt;debug-wait/&gt;     &lt;exiting/&gt;     &lt;exec/&gt;   &lt;/process-flags&gt; &lt;/process&gt; </pre>
<b>Description</b>	Process flags.
<b>Contents</b>	<p>&lt;advisory-lock&gt;—Process may hold a POSIX advisory lock.</p> <p>&lt;controlling-terminal&gt;—Process has a controlling terminal.</p> <p>&lt;debug-trace&gt;—Debugged process being traced.</p> <p>&lt;debug-wait&gt;—Debugging process has waited for child.</p> <p>&lt;exec&gt;—Process called exec.</p> <p>&lt;exiting&gt;—Process is working on exiting.</p> <p>&lt;in-memory&gt;—Process is loaded into memory.</p> <p>&lt;interruptible&gt;—Process is in an interruptible sleep.</p> <p>&lt;profiling&gt;—Process has started profiling.</p> <p>&lt;select&gt;—Process is waiting on select system call.</p> <p>&lt;set-id-privileges&gt;—Process set ID privileges after the last exec.</p> <p>&lt;system-process&gt;—Process is a system process -- no signals, statistics, or swapping.</p> <p>&lt;timing-out&gt;—Process is timing out during sleep.</p> <p>&lt;wait-child&gt;—Process is waiting for child to exec or exit.</p>

**<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-routing-engine-name
  </system-hardware-routing-engine-name>
  <system-hardware-routing-engine-model>system-hardware-routing-engine-model
  </system-hardware-routing-engine-model>

  <system-hardware-routing-engine-serial-number>system-hardware-routing-engine-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-memory-copy-on-write-faults
  </system-virtual-memory-copy-on-write-faults>

  <system-virtual-memory-copy-on-write-optimized>system-virtual-memory-copy-on-write-optimized
  </system-virtual-memory-copy-on-write-optimized>
  <system-virtual-memory-zeroed-pages>system-virtual-memory-zeroed-pages
  </system-virtual-memory-zeroed-pages>

```

```

<system-virtual-memory-zeroed-pages-optimized>system-virtual-memory-zeroed-pages-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>system-virtual-memory-swapped-in-pages
    </system-virtual-memory-swapped-in-pages>

<system-virtual-memory-swapped-out-pages>system-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>system-virtual-memory-cache-pages-minimum
    </system-virtual-memory-cache-pages-minimum>

<system-virtual-memory-cache-pages-maximum>system-virtual-memory-cache-pages-maximum
    </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 Virtual Router Redundancy Protocol Response Tags

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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/9.3R1/junos-vrrpd>. To review the DTD for the tags, see “DTD for Virtual Router Redundancy Protocol Response Tags” on page 2067.

### <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 advertisements timers received 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 received 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>**

<b>Usage</b>	<pre> &lt;vrrp-interface&gt;   &lt;group-vrrp-state-transition-statistics&gt;     &lt;idle-master-transitions&gt;idle-master-transitions&lt;/idle-master-transitions&gt;     &lt;idle-backup-transitions&gt;idle-backup-transitions&lt;/idle-backup-transitions&gt;     &lt;backup-master-transitions&gt;backup-master-transitions       &lt;/backup-master-transitions&gt;     &lt;master-backup-transitions&gt;master-backup-transitions       &lt;/master-backup-transitions&gt;   &lt;/group-vrrp-state-transition-statistics&gt; &lt;/vrrp-interface&gt; </pre>
<b>Description</b>	State transition statistics for the VRRP group.
<b>Contents</b>	<p>&lt;backup-master-transitions&gt;—VRRP instance transitioned from the backup to the master state.</p> <p>&lt;idle-backup-transitions&gt;—VRRP instances transitioned from the idle to the backup state.</p> <p>&lt;idle-master-transitions&gt;—VRRP instances transitioned from the idle to the master state.</p> <p>&lt;master-backup-transitions&gt;—VRRP instances transitioned from the master to the backup state.</p>

**<preempt-hold>**

<b>Usage</b>	<pre> &lt;vrrp-interface&gt;   &lt;preempt-hold&gt;     &lt;preempt&gt;preempt&lt;/preempt&gt;     &lt;preempt-hold-time&gt;preempt-hold-time&lt;/preempt-hold-time&gt;     &lt;accept-data-mode&gt;accept-data-mode&lt;/accept-data-mode&gt;     &lt;vip-count&gt;vip-count&lt;/vip-count&gt;     &lt;vip&gt;vip&lt;/vip&gt;   &lt;/preempt-hold&gt; &lt;/vrrp-interface&gt; </pre>
<b>Description</b>	Display preempt related parameters.
<b>Contents</b>	<p>&lt;accept-data-mode&gt;—Accept packets destined for the virtual IP address.</p> <p>&lt;preempt&gt;—Allow the master router to be preempted.</p> <p>&lt;preempt-hold-time&gt;—Seconds before a backup router preempts the master router.</p> <p>&lt;vip&gt;—List of virtual IP addresses configured on the interface.</p> <p>&lt;vip-count&gt;—Number of virtual IP addresses configured on the interface.</p>

**<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>
  <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-vrrp-interface>...</track-vrrp-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-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.
- <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 advertisement 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 nonexistent 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-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>—Advertisement delay drift per second.

<peak-expiration-rate>—Peak expiration dead timer per second.

<peak-receive-rate>—Peak advertisement receive rate.

<peak-send-rate>—Peak advertisement 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/9.3R1/junos-x509-certificate>. To review the DTD for the tags, see “DTD for X.509 Certificate Response Tags” on page 2073.

### <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>**

<b>Usage</b>	<pre> &lt;x509-certificate-info&gt;   &lt;fingerprint&gt;     &lt;fingerprint-hash-algorithm&gt;<i>fingerprint-hash-algorithm</i>     &lt;/fingerprint-hash-algorithm&gt;     &lt;fingerprint-content&gt;<i>fingerprint-content</i>&lt;/fingerprint-content&gt;   &lt;/fingerprint&gt; &lt;/x509-certificate-info&gt; </pre>
<b>Description</b>	Fingerprint.
<b>Contents</b>	<p>&lt;fingerprint-content&gt;—No documentation is available yet.</p> <p>&lt;fingerprint-hash-algorithm&gt;—No documentation is available yet.</p>

**<issue-info>**

<b>Usage</b>	<pre> &lt;x509-certificate-info&gt;   &lt;issue-info&gt;     &lt;recipient&gt;<i>recipient</i>&lt;/recipient&gt;     &lt;issued-by&gt;<i>issued-by</i>&lt;/issued-by&gt;   &lt;/issue-info&gt; &lt;/x509-certificate-info&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;issued-by&gt;—No documentation is available yet.</p> <p>&lt;recipient&gt;—No documentation is available yet.</p>

**<issuer>**

<b>Usage</b>	<pre> &lt;x509-certificate-info&gt;   &lt;issuer&gt;     &lt;distinguished-name&gt;...&lt;/distinguished-name&gt;   &lt;/issuer&gt; &lt;/x509-certificate-info&gt; </pre>
<b>Description</b>	Identifies the CA that issued certificate.
<b>Contents</b>	<distinguished-name>—No documentation is available yet.

**<key-usage-list>**

<b>Usage</b>	<pre> &lt;x509-certificate-info&gt;   &lt;key-usage-list&gt;     &lt;key-usage&gt;<i>key-usage</i>&lt;/key-usage&gt;   &lt;/key-usage-list&gt; &lt;/x509-certificate-info&gt; </pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<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>**

<b>Usage</b>	<pre>&lt;x509-certificate-info&gt;   &lt;validity&gt;     &lt;not-before&gt;<i>not-before</i>&lt;/not-before&gt;     &lt;not-after&gt;<i>not-after</i>&lt;/not-after&gt;   &lt;/validity&gt; &lt;/x509-certificate-info&gt;</pre>
<b>Description</b>	Information about validity period for X.509 certificate.
<b>Contents</b>	<p>&lt;not-after&gt;—End date of validity period.</p> <p>&lt;not-before&gt;—Start date of validity period.</p>

**<x509-certificate-add-results>**

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;x509-certificate-add-results&gt;     &lt;x509-certificate-add-success/&gt;     &lt;x509-certificate-info&gt;...&lt;/x509-certificate-info&gt;   &lt;/x509-certificate-add-results&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;x509-certificate-add-success&gt;—Certificate added successfully.</p> <p>&lt;x509-certificate-info&gt;—Detailed information about an X.509 certificate.</p>

**<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 1603
- DTD for Adaptive Services Response Tags on page 1611
- DTD for Alarm Response Tags on page 1647
- DTD for APS Response Tags on page 1649
- DTD for ARP Response Tags on page 1651
- DTD for Authentication Response Tags on page 1653
- DTD for Autoinstallation Response Tags on page 1657
- DTD for BFD Response Tags on page 1659
- DTD for Connectivity Fault Management Response Tags on page 1663
- DTD for Chassis Response Tags on page 1671
- DTD for Class-of-Service Response Tags on page 1687
- “DTD for Database Replication Response Tags” on page 1701
- DTD for Data Link Switching Response Tags on page 1703
- DTD for DHCP Response Tags on page 1709
- DTD for DHCP Server Response Tags on page 1717
- DTD for DHCP Relay Response Tags on page 1713
- DTD for Dialer Response Tags on page 1721
- “DTD for Diameter Response Tags” on page 1725
- DTD for Dynamic Configuration Response Tags on page 1729

- DTD for Dynamic Flow Capture Response Tags on page 1733
- DTD for Firewall Filter Response Tags on page 1739
- DTD for Graceful Switchover Response Tags on page 1741
- DTD for Interface Metadata Response Tags on page 1801
- DTD for Interface Response Tags on page 1743
- DTD for IPSec Response Tags on page 1803
- DTD for IPv6 Neighbor Discovery Response Tags on page 1813
- DTD for ISDN Response Tags on page 1815
- DTD for J20 GGSN Response Tags on page 1819
- DTD for LACP Response Tags on page 1837
- DTD for Layer 2 Address Learning Response Tags on page 1839
- DTD for Layer 2 Control Protocol Response Tags on page 1847
- DTD for License Response Tags on page 1863
- DTD for Licensed Feature Metadata Response Tags on page 1867
- DTD for Link-Fault Management Response Tags on page 1857
- DTD for MIP Response Tags on page 1873
- DTD for MPLS OAM Response Tags on page 1869
- DTD for Passive Monitoring Interfaces Response Tags on page 1881
- DTD for PGM Response Tags on page 1885
- DTD for Periodic Packet Management Response Tag Elements on page 1889
- DTD for PPP Response Tag Elements on page 1893
- DTD for PPP over Ethernet Response Tags on page 1897
- DTD for Product Metadata Response Tag Elements on page 1907
- DTD for Redundant Interfaces Response Tags on page 1909
- “DTD for Resource Cleanup Response Tags” on page 1911
- DTD for Routing and Forwarding Table Response Tags on page 2019
- DTD for Routing Protocols Response Tags on page 1913
- DTD for RPM Response Tags on page 2023

- DTD for SDX Response Tags on page 2029
- DTD for Services Accounting Response Tags on page 2031
- DTD for Services Flow Collector Response Tags on page 2037
- DTD for Shutdown Response Tags on page 2041
- DTD for SNMP Response Tags on page 2043
- “DTD for Subscribers Response Tags” on page 2053
- DTD for System Process Response Tags on page 2055
- DTD for Telephony Gateway Module Response Tags on page 2063
- DTD for UDP Forwarding Helper Response Tags on page 2065
- DTD for Virtual Router Redundancy Protocol Response Tags on page 2067
- DTD for X.509 Certificate Response Tags on page 2073





## 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/9.3R1/junos-accounting>. To review reference pages for the tags, see “Summary of Accounting Response Tags” on page 297.

```
<!-- Copyright (c) 2000-2008, 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 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-ifi (#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-yyyyymmdd (#PCDATA)>

<!ELEMENT destination-class-name (#PCDATA)>

<!ELEMENT epoch-timestamp (#PCDATA)>

<!ELEMENT error (#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 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 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 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-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)*>
```

```
<!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-output-packets (#PCDATA)>
```

```
<!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-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-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 routing-engine-accounting-record (profile-layout | epoch-timestamp |
utc-timestamp | hostname | date-yyyyymmdd | 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 timeofday-hhmmss (#PCDATA)>
<!ELEMENT timeout-discard (#PCDATA)>
<!ELEMENT total-cpu-usage (#PCDATA)>
<!ELEMENT transfer-interval (#PCDATA)>
<!ELEMENT truncated-key-discard (#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/9.3R1/junos-adaptive-services`. To review reference pages for the tags, see “Summary of Adaptive Services Response Tags” on page 321.

```
<!-- Copyright (c) 2000-2008, 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-iip-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 (normal-mg-execution-time |
mg-provisional-response-timer-value | mg-originated-pending-limit |
normal-mgc-execution-time | mgc-provisional-response-timer-value |
mgc-originated-pending-limit)*>
<!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-received (#PCDATA)>

<!ELEMENT commands-received-wc (#PCDATA)>

<!ELEMENT commands-sent (#PCDATA)>

<!ELEMENT commands-sent-wc (#PCDATA)>

<!ELEMENT connection-status (#PCDATA)>

<!ELEMENT content-errors (#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-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-mem-mgmt-location-information (#PCDATA)>

<!ELEMENT debug-mem-mgmt-memory-usage-information (#PCDATA)>

<!ELEMENT debug-mem-mgmt-type-information (#PCDATA)>

<!ELEMENT debug-roundtrip-information (#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 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 ex-command-flavor (#PCDATA)>

<!ELEMENT ex-commands-sent (#PCDATA)>

<!ELEMENT ex-commands-sent-wc (#PCDATA)>

<!ELEMENT ex-header-name (#PCDATA)>

<!ELEMENT ex-response-received (#PCDATA)>

<!ELEMENT ex-response-received-err (#PCDATA)>

<!ELEMENT existing-flow-accepts (#PCDATA)>

```

<!ELEMENT existing-flow-counters (existing-flow-accepts | existing-flow-discards | existing-flow-rejects)\*>

<!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)>

```
<!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)>
```

```
<!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-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)>

<!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)>

<!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 | service-state |
active-controller | replication-socket | cleanup-timeout | 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 (mg-segmentation-timer |
mg-maximum-pdu-size | mgc-segmentation-timer | mgc-maximum-pdu-size)*>

<!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)>

<!ELEMENT ids-flow-long-flags (#PCDATA)>

<!ELEMENT ids-flow-source-ip (#PCDATA)>

<!ELEMENT ids-flow-table (ids-flow-entry)*>

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```

<!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)>

<!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 I2tp-control-memory-bytes (#PCDATA)>

<!ELEMENT I2tp-control-rx-bytes (#PCDATA)>

<!ELEMENT I2tp-control-rx-packets (#PCDATA)>

<!ELEMENT I2tp-control-tx-bytes (#PCDATA)>

<!ELEMENT I2tp-control-tx-packets (#PCDATA)>

<!ELEMENT I2tp-create-time (#PCDATA)>

<!ELEMENT I2tp-data-memory-bytes (#PCDATA)>

<!ELEMENT I2tp-data-rx-bytes (#PCDATA)>

<!ELEMENT I2tp-data-rx-packets (#PCDATA)>

<!ELEMENT I2tp-data-tx-bytes (#PCDATA)>

<!ELEMENT I2tp-data-tx-packets (#PCDATA)>

<!ELEMENT I2tp-error-rx-packets (#PCDATA)>

<!ELEMENT I2tp-error-tx-packets (#PCDATA)>

<!ELEMENT I2tp-idle-time (#PCDATA)>

<!ELEMENT I2tp-interface-control-rx-packets (#PCDATA)>

<!ELEMENT I2tp-interface-control-tx-packets (#PCDATA)>

<!ELEMENT I2tp-interface-data-rx-packets (#PCDATA)>

<!ELEMENT I2tp-interface-data-tx-packets (#PCDATA)>

<!ELEMENT I2tp-interface-error-rx-packets (#PCDATA)>

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<!ELEMENT I2tp-interface-error-tx-packets (#PCDATA)>

<!ELEMENT I2tp-interface-name (#PCDATA)>

<!ELEMENT I2tp-multilink-bundle-endpoint (#PCDATA)>

<!ELEMENT I2tp-multilink-bundle-id (#PCDATA)>

<!ELEMENT I2tp-multilink-bundle-mrru-input (#PCDATA)>

<!ELEMENT I2tp-multilink-bundle-mrru-output (#PCDATA)>

<!ELEMENT I2tp-multilink-bundle-num-links (#PCDATA)>

<!ELEMENT I2tp-multilink-clear-entry (I2tp-multilink-bundle-id)*>
<!ATTLIST I2tp-multilink-clear-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2tp-multilink-entry (I2tp-multilink-bundle-id | I2tp-multilink-bundle-endpoint |
I2tp-multilink-bundle-num-links | I2tp-multilink-bundle-mrru-input |
I2tp-multilink-bundle-mrru-output | I2tp-statistics-since | I2tp-control-tx-packets |
I2tp-control-rx-packets | I2tp-data-tx-packets | I2tp-data-rx-packets | I2tp-control-tx-bytes |
I2tp-control-rx-bytes | I2tp-data-tx-bytes | I2tp-data-rx-bytes | I2tp-error-tx-packets |
I2tp-error-rx-packets | I2tp-multilink-links)*>
<!ATTLIST I2tp-multilink-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2tp-multilink-links (I2tp-session-entry)*>

<!ELEMENT I2tp-per-tunnel-group-tunnel-table (tunnel-group-name | interface-name |
I2tp-tunnel-table)*>

<!ELEMENT I2tp-per-tunnel-session-table (tunnel-group-name | interface-name |
I2tp-tunnel-local-id | I2tp-session-table)*>

<!ELEMENT I2tp-per-tunnel-user-table (#PCDATA)>

<!ELEMENT I2tp-session-authentication (#PCDATA)>

<!ELEMENT I2tp-session-bearer-type (#PCDATA)>

<!ELEMENT I2tp-session-bundle-id (#PCDATA)>

<!ELEMENT I2tp-session-call-serial-number (#PCDATA)>

<!ELEMENT I2tp-session-cell-overhead (#PCDATA)>

<!ELEMENT I2tp-session-clear-entry (I2tp-session-local-id)*>
<!ATTLIST I2tp-session-clear-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2tp-session-create-time (#PCDATA)>

<!ELEMENT I2tp-session-encapsulation-overhead (#PCDATA)>

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<!ELEMENT I2tp-session-entry (I2tp-session-local-id | I2tp-session-remote-id |
I2tp-session-remote-ip | I2tp-session-local-ip | I2tp-session-state |
I2tp-session-bundle-id | I2tp-session-user-name | I2tp-session-own-ip |
I2tp-session-peer-ip | I2tp-session-local-name | I2tp-session-remote-name |
I2tp-session-mode | I2tp-session-local-mru | I2tp-session-remote-mru |
I2tp-session-tx-speed | I2tp-session-rx-speed | I2tp-session-bearer-type |
I2tp-session-framing-type | I2tp-session-lcp-renegotiation | I2tp-session-authentication |
I2tp-session-interface-id | I2tp-session-interface-unit | I2tp-session-call-serial-number |
I2tp-session-policer-bandwidth | I2tp-session-policer-exclude-bandwidth |
I2tp-session-policer-burstsize | I2tp-session-firewall-filter |
I2tp-session-encapsulation-overhead | I2tp-session-cell-overhead |
I2tp-session-create-time | I2tp-statistics-since | I2tp-control-tx-packets |
I2tp-control-rx-packets | I2tp-data-tx-packets | I2tp-data-rx-packets | I2tp-control-tx-bytes |
I2tp-control-rx-bytes | I2tp-data-tx-bytes | I2tp-data-rx-bytes | I2tp-error-tx-packets |
I2tp-error-rx-packets | I2tp-create-time | I2tp-up-time | I2tp-idle-time)*>
<!ATTLIST I2tp-session-entry junos:style CDATA #IMPLIED>

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<!ELEMENT I2tp-session-firewall-filter (#PCDATA)>

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<!ELEMENT I2tp-session-framing-type (#PCDATA)>

```

```

<!ELEMENT I2tp-session-interface-id (#PCDATA)>

```

```

<!ELEMENT I2tp-session-interface-unit (#PCDATA)>

```

```

<!ELEMENT I2tp-session-lcp-renegotiation (#PCDATA)>

```

```

<!ELEMENT I2tp-session-local-id (#PCDATA)>

```

```

<!ELEMENT I2tp-session-local-ip (#PCDATA)>

```

```

<!ELEMENT I2tp-session-local-mru (#PCDATA)>

```

```

<!ELEMENT I2tp-session-local-name (#PCDATA)>

```

```

<!ELEMENT I2tp-session-mode (#PCDATA)>

```

```

<!ELEMENT I2tp-session-own-ip (#PCDATA)>

```

```

<!ELEMENT I2tp-session-peer-ip (#PCDATA)>

```

```

<!ELEMENT I2tp-session-policer-bandwidth (#PCDATA)>

```

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<!ELEMENT I2tp-session-policer-burstsize (#PCDATA)>

```

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<!ELEMENT I2tp-session-policer-exclude-bandwidth (#PCDATA)>

```

```

<!ELEMENT I2tp-session-remote-id (#PCDATA)>

```

```

<!ELEMENT I2tp-session-remote-ip (#PCDATA)>

```

```

<!ELEMENT I2tp-session-remote-mru (#PCDATA)>

```

```

<!ELEMENT I2tp-session-remote-name (#PCDATA)>

```

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<!ELEMENT I2tp-session-rx-speed (#PCDATA)>

```

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<!ELEMENT I2tp-session-state (#PCDATA)>

<!ELEMENT I2tp-session-table (I2tp-session-entry)*>
<!ATTLIST I2tp-session-table heading CDATA #IMPLIED>

<!ELEMENT I2tp-session-tx-speed (#PCDATA)>

<!ELEMENT I2tp-session-user-name (#PCDATA)>

<!ELEMENT I2tp-sessions (#PCDATA)>

<!ELEMENT I2tp-statistics-since (#PCDATA)>

<!ELEMENT I2tp-summary-table (I2tp-tunnels | I2tp-sessions | I2tp-error-tx-packets |
I2tp-error-rx-packets | I2tp-control-tx-packets | I2tp-control-rx-packets |
I2tp-interface-error-tx-packets | I2tp-interface-error-rx-packets |
I2tp-interface-control-tx-packets | I2tp-interface-control-rx-packets |
I2tp-control-memory-bytes | I2tp-data-tx-packets | I2tp-data-rx-packets |
I2tp-interface-data-tx-packets | I2tp-interface-data-rx-packets | I2tp-data-memory-bytes |
I2tp-interface-name)*>
<!ATTLIST I2tp-summary-table junos:style CDATA #IMPLIED>

<!ELEMENT I2tp-tunnel-clear-entry (I2tp-tunnel-local-id)*>
<!ATTLIST I2tp-tunnel-clear-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2tp-tunnel-entry (I2tp-tunnel-local-id | I2tp-tunnel-remote-id |
I2tp-tunnel-remote-ip | I2tp-tunnel-state | I2tp-tunnel-session-count | I2tp-tunnel-local-ip |
I2tp-tunnel-remote-name | I2tp-tunnel-local-name | I2tp-tunnel-maximum-sessions |
I2tp-tunnel-window-size | I2tp-tunnel-hello-interval | I2tp-tunnel-tos-reflect |
I2tp-statistics-since | I2tp-control-tx-packets | I2tp-control-rx-packets |
I2tp-data-tx-packets | I2tp-data-rx-packets | I2tp-control-tx-bytes | I2tp-control-rx-bytes |
I2tp-data-tx-bytes | I2tp-data-rx-bytes | I2tp-error-tx-packets | I2tp-error-rx-packets |
I2tp-create-time | I2tp-up-time | I2tp-idle-time)*>
<!ATTLIST I2tp-tunnel-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2tp-tunnel-hello-interval (#PCDATA)>

<!ELEMENT I2tp-tunnel-local-id (#PCDATA)>

<!ELEMENT I2tp-tunnel-local-ip (#PCDATA)>

<!ELEMENT I2tp-tunnel-local-name (#PCDATA)>

<!ELEMENT I2tp-tunnel-maximum-sessions (#PCDATA)>

<!ELEMENT I2tp-tunnel-remote-id (#PCDATA)>

<!ELEMENT I2tp-tunnel-remote-ip (#PCDATA)>

<!ELEMENT I2tp-tunnel-remote-name (#PCDATA)>

<!ELEMENT I2tp-tunnel-session-count (#PCDATA)>

<!ELEMENT I2tp-tunnel-state (#PCDATA)>

<!ELEMENT I2tp-tunnel-table (I2tp-tunnel-entry)*>
<!ATTLIST I2tp-tunnel-table heading CDATA #IMPLIED>

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<!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-inactivity-time (#PCDATA)>

<!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)*>

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<!ELEMENT media-service-ref-name (#PCDATA)>

<!ELEMENT memlimit-drops (#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 mg-maximum-pdu-size (#PCDATA)>

<!ELEMENT mg-originated-pending-limit (#PCDATA)>

<!ELEMENT mg-provisional-response-timer-value (#PCDATA)>

<!ELEMENT mg-segmentation-timer (#PCDATA)>

<!ELEMENT mgc-maximum-pdu-size (#PCDATA)>

<!ELEMENT mgc-originated-pending-limit (#PCDATA)>

<!ELEMENT mgc-provisional-response-timer-value (#PCDATA)>

<!ELEMENT mgc-segmentation-timer (#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 normal-mg-execution-time (#PCDATA)>

<!ELEMENT normal-mgc-execution-time (#PCDATA)>

<!ELEMENT notification-regulation (#PCDATA)>

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<!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)*>

<!ELEMENT packet-processing-error (#PCDATA)>

<!ELEMENT packets (#PCDATA)>

<!ELEMENT parser-counters (syntax-errors | content-errors | unknown-methods)*>

<!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)*>
<!--LIST pgcp-flow-nat nat-type CDATA #IMPLIED-->

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<!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)>

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<!ELEMENT ping-mismatched-sequence-number (#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 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)*>

<!ELEMENT quality-of-service-entry (cpu-name | idle | timer | system | output | input |
fragment-output | bypass-output | free-frame)*>

<!ELEMENT queue-limit-percentage (#PCDATA)>

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<!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-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-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)*>
```

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<!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)>
```

```
<!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-ip-address (#PCDATA)>  
<!ELEMENT radius-server-maximum-sessions (#PCDATA)>  
<!ELEMENT radius-server-pending-requests (#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-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)>  
<!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 remote-ip-address (#PCDATA)>  
<!ELEMENT remote-port (#PCDATA)>  
<!ELEMENT replication-socket (#PCDATA)>  
<!ELEMENT requested-timestamp (#PCDATA)>  
<!ELEMENT response-global-failure (#PCDATA)>  
<!ELEMENT response-invalid (#PCDATA)>  
<!ELEMENT response-invite-ok (#PCDATA)>  
<!ELEMENT response-name (#PCDATA)>  
<!ELEMENT response-non-invite-ok (#PCDATA)>  
<!ELEMENT response-provisional (#PCDATA)>  
<!ELEMENT response-received (#PCDATA)>  
<!ELEMENT response-received-err (#PCDATA)>  
<!ELEMENT response-redir (#PCDATA)>  
<!ELEMENT response-request-failure (#PCDATA)>



```

<!ELEMENT response-retransmits (#PCDATA)>

<!ELEMENT response-sent (#PCDATA)>

<!ELEMENT response-sent-err (#PCDATA)>

<!ELEMENT response-server-failure (#PCDATA)>

<!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-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-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-roundtrip (debug-roundtrip-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-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-extensive (ex-command-flavor | ex-commands-sent |
ex-commands-sent-wc | ex-response-received | ex-response-received-err)*>

<!ELEMENT service-pgcp-stat-h248-extensive-header (ex-header-name)*>

<!ELEMENT service-pgcp-stat-h248-per-command-rq (command-name | commands-sent |
commands-sent-wc | commands-received | commands-received-wc)*>

<!ELEMENT service-pgcp-stat-h248-per-command-rsp (response-name |
response-received | response-received-err | response-sent | response-sent-err)*>

<!ELEMENT service-pgcp-statistics-drain-information (#PCDATA)>

```

```

<!ELEMENT service-pgcp-statistics-gateway (gateway-entry |
service-pgcp-statistics-h248 | service-pgcp-stat-h248-per-command-rq |
service-pgcp-stat-h248-per-command-rsp | service-pgcp-stat-h248-extensive-header |
service-pgcp-stat-h248-extensive)*>

<!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)*>
<!-- ATTENTION: 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-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-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-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)*>

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```

<!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-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)>

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```

<!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)>

```



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<!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 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 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)>

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<!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)>

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<!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 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/9.3R1/junos-alarm>. To review reference pages for the tags, see “Summary of Alarm Response Tags” on page 431.

```
<!-- Copyright (c) 2000-2008, 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 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/9.3R1/junos-aps`. To review reference pages for the tags, see “Summary of APS Response Tags” on page 434.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-aps.dtd -->
```

```
<!ELEMENT aps-adjacent-state (#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-receive-k1 | aps-transmit-k1 | aps-neighbor-k1 |
aps-neighbor-paired-request | aps-revert-time | aps-neighbor-revert-time |
aps-remaining-revert-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-pair-group-name (#PCDATA)>
<!ELEMENT aps-pair-interface-name (#PCDATA)>
<!ELEMENT aps-receive-k1 (#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-request-k1 (#PCDATA)>
<!ELEMENT aps-revert-time (#PCDATA)>
<!ELEMENT aps-time-remaining (#PCDATA)>
<!ELEMENT aps-transmit-k1 (#PCDATA)>
```



## Chapter 8

# 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/9.3R1/junos-arp`. To review reference pages for the tags, see “Summary of ARP Response Tags” on page 437.

```
<!-- Copyright (c) 2000-2008, 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 9

# 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/9.3R1/junos-auth>. To review reference pages for the tags, see “Summary of Authentication Response Tags” on page 440.

```
<!-- Copyright (c) 2000-2008, 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)*>
<!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-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 10

# 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 platforms. The associated XML namespace is `http://xml.juniper.net/junos/9.3R1/junos-autoinstallation`. To review reference pages for the tags, see “Summary of Autoinstallation Response Tags” on page 455.

```
<!-- 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 11

# 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/9.3R1/junos-bfd>. To review reference pages for the tags, see “Summary of BFD Response Tags” on page 457.

```
<!-- Copyright (c) 2000-2008, 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 bfd-client (client-name | client-transmission-interval |  
client-reception-interval | client-multiplier | client-holddown-interval | client-state)*>
```

```
<!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-routing-table-index |  
multihop-local-address)*>
```

```
<!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-holddown-interval (#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-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-detection-time (#PCDATA)>  
<!ELEMENT session-down-time (#PCDATA)>  
<!ELEMENT session-interface (#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 12

# 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/9.3R1/junos-cfm>. To review reference pages for the tags, see “Summary of Connectivity Fault Management Response Tags” on page 464.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-cfm.dtd -->
```

```
<!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-defect-cross-connect-ccm (#PCDATA)>
```

```
<!ELEMENT cfm-defect-error-ccm (#PCDATA)>
```

```
<!ELEMENT cfm-defect-rdi-in-some-mep (#PCDATA)>
```

```
<!ELEMENT cfm-defect-remote-mep-no-ccm (#PCDATA)>
```

```

<!ELEMENT cfm-dfwd-connection-state (#PCDATA)>

<!ELEMENT cfm-dfwd-requests (#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)*>

<!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-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-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)*>

<!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)*>

<!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-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)*>
<!-- ATTENTION: cfm-interface-snapshot junos:style CDATA #IMPLIED -->

<!ELEMENT cfm-interface-status (#PCDATA)>

<!ELEMENT cfm-interface-type (#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-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)*>

<!ELEMENT cfm-local-mep-direction (#PCDATA)>

<!ELEMENT cfm-local-mep-identifier (#PCDATA)>

<!ELEMENT cfm-local-mep-mac-address (#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)*>

<!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-name (#PCDATA)>

<!ELEMENT cfm-maintenance-association-name-format (#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-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-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-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)*>
<!--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-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-requests)*>
```

## Chapter 13

# 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/9.3R1/junos-chassis`. To review reference pages for the tags, see “Summary of Chassis Response Tags” on page 494.

```
<!-- Copyright (c) 2000-2008, 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 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 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-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 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 | 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 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 exhaust-a-temperature (#PCDATA)>

<!ELEMENT exhaust-b-temperature (#PCDATA)>

<!ELEMENT exhaust-temperature (#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-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 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-information (fpc)*>
<!ATTLIST fpc-information junos:style CDATA #IMPLIED>

<!ELEMENT fpc-link-status (#PCDATA)>

<!ELEMENT fpc-panel (fpc)*>

<!ELEMENT fpc-slot (#PCDATA)>

<!ELEMENT fpc-state (#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 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 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-information (lcc)*>
<!--ATTLIST lcc-information junos:style CDATA #IMPLIED-->

<!ELEMENT lcc-number (#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 no-feb-slot EMPTY>

<!ELEMENT no-npc-slot EMPTY>

<!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 | port-information)*>

<!ELEMENT pic-package (#PCDATA)>

<!ELEMENT pic-slot (#PCDATA)>

<!ELEMENT pic-state (#PCDATA)>

<!ELEMENT pic-type (#PCDATA)>

<!ELEMENT pic-version (#PCDATA)>

<!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 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 | 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 sfm (slot | amber-led | green-led | blue-led)*>

<!ELEMENT sfm-panel (sfm)*>

<!ELEMENT sfp-vendor-name (#PCDATA)>

<!ELEMENT sfp-vendor-pno (#PCDATA)>

<!ELEMENT sib (slot | state | up-time | comment | ok-led | fail-led | active-led)*>

<!ELEMENT sib-fm-state (#PCDATA)>

<!ELEMENT sib-information (sib)*>
<!ATTLIST sib-information junos:style CDATA #IMPLIED>

<!ELEMENT sib-panel (sib)*>

<!ELEMENT sib-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 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)*>
<!-- ATTENTION: spmb-information junos:style CDATA #IMPLIED -->

<!ELEMENT spp-temperature (#PCDATA)>

<!ELEMENT spr-temperature (#PCDATA)>

<!ELEMENT start-time (#PCDATA)>
<!-- ATTENTION: 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)*>

<!-- ATTENTION: system-sub-module-firmware-compatibility-list
(system-sub-module-firmware-compatibility)* -->

<!-- ATTENTION: system-sub-module-firmware-list (system-sub-module-firmware)* -->

<!ELEMENT temperature (#PCDATA)>
<!-- ATTENTION: temperature junos:celsius CDATA #IMPLIED -->
<!-- ATTENTION: temperature junos:celsius CDATA #IMPLIED -->

<!ELEMENT temperature-name (#PCDATA)>

<!-- ATTENTION: temperature-reading (temperature-name | temperature)* -->

<!-- ATTENTION: 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 14

# 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/9.3R1/junos-cos>. To review reference pages for the tags, see “Summary of Class-of-Service Response Tags” on page 557.

```
<!-- Copyright (c) 2000-2008, 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 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-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 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 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-fragmentation-map-information (fragmentation-map)*>

<!ELEMENT cos-information (cos-forwarding-class-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)*>

<!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-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 (fqc-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-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 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)*>

<!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)*>

<!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 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 15

# 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/9.3R1/junos-database-replication`. To review reference pages for the tags, see “Summary of Database Replication Response Tags” on page 605.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- 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 16

# 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/9.3R1/junos-dlswd`. To review reference pages for the tags, see “Summary of Data Link Switching Response Tags” on page 607.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
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```

```
<!-- 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 17

# 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/9.3R1/junos-dhcp`. To review reference pages for the tags, see “Summary of DHCP Response Tags” on page 619.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
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```

```
<!-- 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-lease-length (#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 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)>

## Chapter 18

# 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/9.3R1/junos-dhcp-relay`. To review reference pages for the tags, see “Summary of DHCP Relay Response Tags” on page 629.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- 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 19

# 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/9.3R1/junos-dhcp-server>. To review reference pages for the tags, see “Summary of DHCP Server Response Tags” on page 635.

```
<!-- Copyright (c) 2000-2008, 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 | 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)>



## Chapter 20

# 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/9.3R1/junos-dood`. To review reference pages for the tags, see “Summary of Dialer Response Tags” on page 641.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
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<!-- 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 21

# DTD for Diameter Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-diameter.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/9.3R1/junos-diameter>. To review reference pages for the tags, see “Summary of Diameter Response Tags” on page 648.

```
<!-- Copyright (c) 2000-2008, 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)*>
<!-- ATTENTION: 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)*>
<!-- ATTENTION: show-diameter-results junos:style CDATA #IMPLIED -->
```

## Chapter 22

# 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/9.3R1/junos-dynamic-configuration`. To review reference pages for the tags, see “Summary of Dynamic Configuration Response Tags” on page 657.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-dynamic-configuration.dtd -->
```

```
<!ELEMENT accounting-session-id (#PCDATA)>
```

```
<!ELEMENT action (#PCDATA)>
```

```
<!ELEMENT address-pool (#PCDATA)>
```

```
<!ELEMENT agg-type (#PCDATA)>
```

```
<!ELEMENT attribute-name (#PCDATA)>
```

```
<!ELEMENT attribute-value (#PCDATA)>
```

```
<!ELEMENT backpressure (#PCDATA)>
```

```
<!ELEMENT blank-err-int (#PCDATA)>
```

```
<!ELEMENT blank-err-int-name (#PCDATA)>
```

```
<!ELEMENT blank-err-str-name (#PCDATA)>
```

```
<!ELEMENT blank-err-string (#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 | state |  
dynamic-configuration-info | session-ids)*>
```

```
<!ELEMENT client-session-type (#PCDATA)>
```

```

<!ELEMENT consumer-name (#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 failure (#PCDATA)>

<!ELEMENT failure-reason (#PCDATA)>

<!ELEMENT ifl-type (#PCDATA)>

<!ELEMENT interface (#PCDATA)>

<!ELEMENT ip-address (#PCDATA)>

<!ELEMENT ip-address-mask (#PCDATA)>

<!ELEMENT ipv6-address (#PCDATA)>

<!ELEMENT ipv6-address-mask (#PCDATA)>

<!ELEMENT logical-system (#PCDATA)>

<!ELEMENT mac-address (#PCDATA)>

<!ELEMENT malformed-msgs (#PCDATA)>

<!ELEMENT nas-port-type (#PCDATA)>

<!ELEMENT producer-name (#PCDATA)>

<!ELEMENT producer-number (#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 request-result (#PCDATA)>

<!ELEMENT results (action | session-type | session-id | success | failure)*>
<!ATTLIST results junos:style CDATA #IMPLIED>

<!ELEMENT routing-instance (#PCDATA)>

<!ELEMENT service-bundle (#PCDATA)>

```



```

<!ELEMENT service-name (#PCDATA)>

<!ELEMENT service-session-info (session-id | start-time | service-name | agg-type | 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 (producer-name | producer-number | consumer-name |
backpressure | telluser | telluser_failed | malformed-msgs | failure-reason |
blank-err-str-name | blank-err-string | blank-err-int-name | blank-err-int)*>

<!ELEMENT start-time (#PCDATA)>
<!ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT state (#PCDATA)>

<!ELEMENT success EMPTY>

<!ELEMENT telluser (#PCDATA)>

<!ELEMENT telluser_failed (#PCDATA)>

<!ELEMENT user-name (#PCDATA)>

```



## Chapter 23

# 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/9.3R1/junos-dfc`. To review reference pages for the tags, see “Summary of Dynamic Flow Capture Response Tags” on page 664.

```
<!-- Copyright (c) 2000-2008, 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 24

# 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/9.3R1/junos-filter>. To review reference pages for the tags, see “Summary of Firewall Filter Response Tags” on page 672.

```
<!-- Copyright (c) 2000-2008, 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-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 25

# 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/9.3R1/junos-switchover`. To review reference pages for the tags, see “Summary of Graceful Switchover Response Tags” on page 675.

```
<!-- Copyright (c) 2000-2008, 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 26

# 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/9.3R1/junos-interface>. To review reference pages for the tags, see “Summary of Interface Response Tags” on page 680.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-interface.dtd -->
```

```
<!ELEMENT ac-mac (#PCDATA)>
```

```
<!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-bundle-links (#PCDATA)>
```

```
<!ELEMENT active-defects (type | 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 (iff-none | iff-primary | iff-redirects | iff-no-redirects |
iff-hard-down | iff-down | iff-up | iff-func1 | iff-func2 | iff-is-primary | iff-recv-options |
iff-recv-ttl-exceeded | iff-dst-class-usage | iff-src-class-input | iff-src-class-output |
iff-mtu-user-conf | iff-mac-validate-strict | iff-mac-validate-loose | iff-rpf-check |
iff-rpf-loose-mode | iff-sample-input | iff-sample-output | iff-no-asynch-notification |
iff-negotiate-address | iff-port-mode-trunk | iff-mtu-protocol-adj | iff-unnumbered |
iff-tcc-mpls | iff-tcc-inet | iff-tcc-inet6 | iff-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 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 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 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 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 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-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-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-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-mpIs 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 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-lor | sonet-alarm-berr-sd | sonet-alarm-berr-sf | sonet-alarm-lrldi |
sonet-alarm-prdi | sonet-alarm-rei | sonet-alarm-uneq | sonet-alarm-pmis |
sonet-alarm-loc | sonet-alarm-vais | sonet-alarm-vlop | sonet-alarm-vrldi |
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-lor | 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-yw |
ds3-alarm-idle | ds1-alarm-ais | ds1-alarm-lof | ds1-alarm-los | ds1-alarm-yw |
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-lor | dsl-alarm-far-lof | dsl-alarm-far-los |
dsl-alarm-far-locdi | dsl-alarm-far-locdni | ethernet-alarm-link-down | ethernet-alarm-lcdp |
isdsl-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 | 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>

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<!ELEMENT interface-flapped (#PCDATA)>

```

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<!ELEMENT interface-index (#PCDATA)>

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<!ELEMENT interface-information (physical-interface | logical-interface | controller |
interface-set)*>
<!ATTLIST interface-information junos:style CDATA #IMPLIED>

```

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<!ELEMENT interface-location-name-information (location-name-information)*>

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```

<!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)>

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```

<!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-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)>

<!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)>

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<!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)>

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<!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)>

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<!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)*>

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<!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)>

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<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)>

<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)*>

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```

<!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-uplink-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 | in-arp-statistics | I2circuit-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)*>

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<!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-type (#PCDATA)>

<!ELEMENT minimum-bandwidth-in-aggregate (#PCDATA)>

<!ELEMENT minimum-links (#PCDATA)>

<!ELEMENT minimum-links-in-aggregate (#PCDATA)>

<!ELEMENT mlfr-uni-nni-bundle-options (mlfr-uni-nni-device-type | mlfr-uni-nni-mrru |
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)*>

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<!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)>

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<!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)>

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<!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)>

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<!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 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)*>
```

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<!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)>
```

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<!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-errors (media-alarm)*>
<!ATTLIST otn-errors junos:style CDATA #IMPLIED>

```

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<!ELEMENT otn-fec-statistics (fec-corrected-errors | fec-corrected-error-ratio)*>
<!ATTLIST otn-fec-statistics junos:style CDATA #IMPLIED>

```

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<!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-otu-information (media-alarm)*>

```

```

<!ATTLIST otn-otu-information junos:style CDATA #IMPLIED>

<!ELEMENT otn-rx-overhead (#PCDATA)>

<!ELEMENT otn-tx-overhead (#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)>

<!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)>

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<!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)>
<!ELEMENT packet-drops (#PCDATA)>
<!ELEMENT pap-state (#PCDATA)>
<!ELEMENT payload-scrambler (#PCDATA)>
<!ELEMENT peak (#PCDATA)>
<!ELEMENT peer-configuration-status (peer-nonmatching-dlci)*>
<!--LIST 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)>
```

```

<!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 | minimum-links-in-aggregate |
minimum-bandwidth-in-aggregate | if-device-flags | if-config-flags |
shared-uplink-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 | 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-fec-statistics |
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 | 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 | satop-information |
cesopsn-information | cos-information | physical-interface-cos-information |
mlfr-uni-nni-traffic-statistics | interval-information)*>

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```

<!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)*>

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```

<!ELEMENT physical-interface-cos-use-max-queues (#PCDATA)>

```

```

<!ELEMENT physical-interface-name (#PCDATA)>

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```

<!ELEMENT physical-interface-red-buffer-occupancy (instant-usage-weight-exponent)*>

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<!ELEMENT physical-interface-schedulers (#PCDATA)>

```

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<!ELEMENT physical-link (#PCDATA)>

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<!ELEMENT physical-mode (#PCDATA)>

```

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<!ELEMENT plcp-defects (media-alarm)*>

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```

<!ELEMENT plcp-statistics (ferr-count | ferr-seconds | biqe-count | biqe-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 | ac-mac | auto-reconnect |
idle-timeout | session-uptime)*>

<!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)>

```



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<!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-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-uplink-information (shared-uplink-logical-interface)*>

<!ELEMENT shared-uplink-logical-interface (peer-interface-name | uplink-shared-with |
rx-fe | rx-nhid | tx-fe | tx-nhid)*>

<!ELEMENT shared-uplink-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)>

<!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-lrldi 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>

<!ELEMENT sonet-alarm-vloc EMPTY>

<!ELEMENT sonet-alarm-vlop EMPTY>
```



```

<!ELEMENT sonet-alarm-vmis EMPTY>

<!ELEMENT sonet-alarm-vrddi EMPTY>

<!ELEMENT sonet-alarm-vuneq EMPTY>

<!ELEMENT sonet-errors (media-alarm)*>
<!-- ATTENTION: sonet-errors junos:style CDATA #IMPLIED -->

<!ELEMENT sonet-line-information (media-alarm)*>
<!-- ATTENTION: sonet-line-information junos:style CDATA #IMPLIED -->

<!ELEMENT sonet-loopback (#PCDATA)>

<!ELEMENT sonet-mode (#PCDATA)>

<!ELEMENT sonet-path-information (media-alarm)*>
<!-- ATTENTION: 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)*>
<!-- ATTENTION: sonet-physical-information junos:style CDATA #IMPLIED -->

<!ELEMENT sonet-rx-overhead (#PCDATA)>

<!ELEMENT sonet-rx-path-trace (#PCDATA)>

<!ELEMENT sonet-section-information (media-alarm)*>
<!-- ATTENTION: sonet-section-information junos:style CDATA #IMPLIED -->

<!ELEMENT sonet-tx-overhead (#PCDATA)>

<!ELEMENT sonet-tx-path-trace (#PCDATA)>

<!ELEMENT sonet-vt-information (media-alarm)*>
<!-- ATTENTION: 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)*>

<!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 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)*>

<!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 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 uplink-shared-with (#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 | 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 | 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 27

# 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 metadata. The associated XML namespace is `http://xml.juniper.net/junos/9.3R1/junos-interface-metadata`. To review reference pages for the tags, see “Summary of Interface Metadata Response Tags” on page 678.

```
<!-- Copyright (c) 2000-2008, 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 28

# 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/9.3R1/junos-ipsec>. To review reference pages for the tags, see “Summary of IPSec Response Tags” on page 848.

```
<!-- Copyright (c) 2000-2008, 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)*>
<!-- ATTENTION: 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 29

# 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/9.3R1/junos-ipv6-nd`. To review reference pages for the tags, see “Summary of IPv6 Neighbor Discovery Response Tags” on page 884.

```
<!-- Copyright (c) 2000-2008, 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 30

# DTD for ISDN Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-isdn.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/9.3R1/junos-isdn`. To review reference pages for the tags, see “Summary of ISDN Response Tags” on page 886.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-isdn.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 31

# 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/9.3R1/junos-ggsn`. To review reference pages for the tags, see “Summary of J20 GGSN Response Tags” on page 895.

```
<!-- Copyright (c) 2000-2008, 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)>
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```
<!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)>
```

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<!ELEMENT active-predifened-charging-rulbases (#PCDATA)>
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<!ELEMENT active-predifened-charging-rules (#PCDATA)>
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```
<!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)*>
```

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<!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)>

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<!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)>

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<!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)>

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<!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)>

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<!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)*>

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<!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 gtp-log-cdrs (#PCDATA)>

<!ELEMENT gtp-send-attempted-cdrs (#PCDATA)>

<!ELEMENT gtp-send-failed-cdrs (#PCDATA)>

<!ELEMENT hardware-version (#PCDATA)>

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<!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 I2tp-tunnel-packet-statistics (control-tx-packets | control-rx-packets |
data-tx-packets | data-rx-packets | discard-tx-packets | discard-rx-packets)*>

<!ELEMENT I2tp-tunnel-statistics (local-tid | remote-tid | local-ip | remote-ip |
active-sessions | I2tp-tunnel-packet-statistics)*>

<!ELEMENT I2tp-tunnel-statistics-information (I2tp-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)>

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<!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)*>

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<!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)>
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<!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)*>

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<!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)*>

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<!ELEMENT pdp-create-failed (#PCDATA)>

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<!ELEMENT pdp-create-failed-ipv6 (#PCDATA)>

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<!ELEMENT pdp-created (#PCDATA)>

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```

<!ELEMENT pdp-created-ipv6 (#PCDATA)>

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```

<!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)>

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<!ELEMENT pdp-deleted-by-session-supervision (#PCDATA)>

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<!ELEMENT pdp-diagnostics-per-apn (pdp-id)*>

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<!ELEMENT pdp-failed-deactivations (#PCDATA)>

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<!ELEMENT pdp-id (#PCDATA)>

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<!ELEMENT pdp-initiated-deactivation (#PCDATA)>

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<!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)>

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<!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 32

# 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/9.3R1/junos-lacpd`. To review reference pages for the tags, see “Summary of LACP Response Tags” on page 946.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-lacpd.dtd -->
```

```
<!ELEMENT aggregate-name (#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-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-synchronization (#PCDATA)>
```

```
<!ELEMENT lacp-sys-priority (#PCDATA)>

<!ELEMENT lacp-system-id (#PCDATA)>

<!ELEMENT lacp-timeout (#PCDATA)>

<!ELEMENT lacp-transmit-state (#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 name (#PCDATA)>
```

## Chapter 33

# 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/9.3R1/junos-l2al`. To review reference pages for the tags, see “Summary of Layer 2 Address Learning Response Tags” on page 949.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-l2al.dtd -->
```

```
<!ELEMENT bd-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 | nh-type | nhindex)*>
```

```
<![ATTLIST flood-nh-components junos:style CDATA #IMPLIED]>
```

```
<!ELEMENT flood-nh-group (flood-nh-group-name | flood-nh-group-type | nh-type | 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 | nh-type | 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 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 ipc-diff-time-sec (#PCDATA)>

<!ELEMENT ipc-diff-time-usec (#PCDATA)>

<!ELEMENT ipc-end-time-sec (#PCDATA)>

<!ELEMENT ipc-end-time-usec (#PCDATA)>

<!ELEMENT ipc-mac-add (#PCDATA)>

<!ELEMENT ipc-start-time-sec (#PCDATA)>

<!ELEMENT ipc-start-time-usec (#PCDATA)>

<!ELEMENT kernel-diff-time-sec (#PCDATA)>

<!ELEMENT kernel-diff-time-usec (#PCDATA)>

<!ELEMENT kernel-end-time-sec (#PCDATA)>

<!ELEMENT kernel-end-time-usec (#PCDATA)>

```

```

<!ELEMENT kernel-mac-add (#PCDATA)>

<!ELEMENT kernel-start-time-sec (#PCDATA)>

<!ELEMENT kernel-start-time-usec (#PCDATA)>

<!ELEMENT I2-bridge-vlan (#PCDATA)>

<!ELEMENT I2-mac-address (#PCDATA)>

<!ELEMENT I2-mac-bridging-domain (#PCDATA)>

<!ELEMENT I2-mac-entry-flags (#PCDATA)>

<!ELEMENT I2-mac-epoch (#PCDATA)>

<!ELEMENT I2-mac-flags (#PCDATA)>

<!ELEMENT I2-mac-ifl-generation (#PCDATA)>

<!ELEMENT I2-mac-interface-device (#PCDATA)>

<!ELEMENT I2-mac-learn-mask (#PCDATA)>

<!ELEMENT I2-mac-logical-interface (#PCDATA)>

<!ELEMENT I2-mac-logical-system (#PCDATA)>

<!ELEMENT I2-mac-routing-instance (#PCDATA)>

<!ELEMENT I2-mac-sequence-number (#PCDATA)>

<!ELEMENT I2-mac-stp-index (#PCDATA)>

<!ELEMENT I2-mac-vlan (#PCDATA)>

<!ELEMENT I2ald-bridge-domain-flood-event-info (event-name | event-type | event-owner
| event-op | event-error)*>
<!ATTLIST I2ald-bridge-domain-flood-event-info junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-bridge-domain-flood-event-list (I2ald-bridge-domain-flood-event-info)*>

<!ELEMENT I2ald-bridge-domain-flood-event-queue (I2ald-bridge-domain-flood-next-event
| I2ald-bridge-domain-flood-event-list)*>

<!ELEMENT I2ald-bridge-domain-flood-instance (I2ald-bridge-domain-lr-information)*>

<!ELEMENT I2ald-bridge-domain-flood-instance-information (instance-name |
num-active-ce-iffs | num-active-ve-iffs | flood-route)*>
<!ATTLIST I2ald-bridge-domain-flood-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-bridge-domain-flood-next-event
(I2ald-bridge-domain-flood-event-info)*>

<!ELEMENT I2ald-bridge-domain-flood-route-information (flood-route)*>

```

```

<!ELEMENT I2ald-bridge-domain-lr-information (logical-system-info |
I2ald-bridge-domain-flood-instance-information)*>

<!ELEMENT I2ald-bridge-instance-group (I2rtb-name | I2rtb-bridging-domain |
I2rtb-instance-description | I2rtb-instance-type | I2rtb-instance-state |
I2rtb-instance-restart-state | I2rtb-instance-pathse1-timeout | I2rtb-interface-name |
I2rtb-table-name | I2rtb-table-mac-count | I2rtb-table-active-mac-count)*>

<!ELEMENT I2ald-bridge-instance-information (I2ald-bridge-instance-group)*>
<!ATTLIST I2ald-bridge-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-config-flag (#PCDATA)>

<!ELEMENT I2ald-config-smac-count (#PCDATA)>

<!ELEMENT I2ald-global-configuration (I2ald-mac-aging-time | I2ald-config-flag |
I2ald-mac-learning-status | I2ald-hardware-mac-learning-status |
I2ald-software-mac-learning-status | I2ald-statistics-status | I2ald-sequence-number |
I2ald-mac-learn-toggle-count | I2ald-hardware-mac-learn-toggle-count |
I2ald-software-mac-learn-toggle-count | I2ald-statistics-toggle-count |
I2ald-global-mac-limit-count | I2ald-global-mac-limit | I2ald-global-packet-action-drop |
I2ald-interface-mac-limit-wm | I2ald-rtb-mac-limit-wm | I2ald-mac-limit-wm |
I2ald-interface-mac-limit-timeout | I2ald-rtb-mac-limit-timeout | I2ald-mac-limit-timeout |
I2ald-config-smac-count | I2ald-non-config-smac-count)*>
<!ATTLIST I2ald-global-configuration junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-global-mac-limit (#PCDATA)>

<!ELEMENT I2ald-global-mac-limit-count (#PCDATA)>

<!ELEMENT I2ald-global-macdb (I2ald-mac-entry)*>

<!ELEMENT I2ald-global-macdb-count (mac-count)*>

<!ELEMENT I2ald-global-packet-action-drop (#PCDATA)>

<!ELEMENT I2ald-hardware-mac-learn-toggle-count (#PCDATA)>

<!ELEMENT I2ald-hardware-mac-learning-status (#PCDATA)>

<!ELEMENT I2ald-if-mac-count-entry (interface-name | mac-count)*>
<!ATTLIST I2ald-if-mac-count-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-interface-mac-count (I2ald-total-intf-mac-count |
I2ald-if-mac-count-entry)*>

<!ELEMENT I2ald-interface-mac-limit-timeout (#PCDATA)>

<!ELEMENT I2ald-interface-mac-limit-wm (#PCDATA)>

<!ELEMENT I2ald-interface-macdb (I2ald-macdb-if-name | I2ald-mac-entry)*>

<!ELEMENT I2ald-mac-aging-time (#PCDATA)>

<!ELEMENT I2ald-mac-destination-address-statistics (packet-count | byte-count)*>

```



```

<!ELEMENT I2ald-mac-entry (I2-mac-address | I2-mac-interface-device |
I2-mac-logical-interface | I2-mac-routing-instance | I2-mac-bridging-domain |
I2-mac-logical-system | I2-mac-vlan | I2-mac-stp-index | I2-mac-epoch |
I2-mac-ifl-generation | I2-mac-sequence-number | I2-mac-learn-mask | I2-mac-entry-flags
| I2-mac-flags | I2-bridge-vlan | I2ald-mac-source-address-statistics |
I2ald-mac-destination-address-statistics)*>
<!ATTLIST I2ald-mac-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-mac-learn-toggle-count (#PCDATA)>

<!ELEMENT I2ald-mac-learning-status (#PCDATA)>

<!ELEMENT I2ald-mac-limit-timeout (#PCDATA)>

<!ELEMENT I2ald-mac-limit-wm (#PCDATA)>

<!ELEMENT I2ald-mac-source-address-statistics (packet-count | byte-count)*>

<!ELEMENT I2ald-macdb-if-name (#PCDATA)>

<!ELEMENT I2ald-macdb-rtb-name (#PCDATA)>

<!ELEMENT I2ald-non-config-smac-count (#PCDATA)>

<!ELEMENT I2ald-perf-counters (ipc-mac-add | ipc-start-time-sec | ipc-start-time-usec |
ipc-end-time-sec | ipc-end-time-usec | ipc-diff-time-sec | ipc-diff-time-usec |
kernel-mac-add | kernel-start-time-sec | kernel-start-time-usec | kernel-end-time-sec |
kernel-end-time-usec | kernel-diff-time-sec | kernel-diff-time-usec)*>

<!ELEMENT I2ald-rtb-entry (I2rtb-name | I2rtb-bridging-domain | I2rtb-id |
I2rtb-I2irb-ifl-index | I2bd-id | I2bd-vlan-id | I2rtb-logical-system | I2rtb-sequence-number |
I2rtb-mac-limit | I2rtb-macs-learned | I2rtb-config-smacs-learned |
I2rtb-non-config-smacs-learned | I2rtb-flags | I2rtb-irb-interface | I2rtb-irb-interface-index |
I2rtb-handle | I2rtb-config-bd-vlan | I2rtb-config-operation | I2rtb-config-flags |
I2rtb-config-params | I2rtb-instance-type | I2rtb-config-smac-count |
I2rtb-rtsock-write-errors)*>
<!ATTLIST I2ald-rtb-entry junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-rtb-if-mac-count (I2ald-rtb-if-mac-count-entry)*>

<!ELEMENT I2ald-rtb-if-mac-count-entry (interface-name | mac-count)*>

<!ELEMENT I2ald-rtb-learn-vlan-mac-count (I2ald-rtb-learn-vlan-mac-count-entry)*>

<!ELEMENT I2ald-rtb-learn-vlan-mac-count-entry (learn-vlan | mac-count)*>

<!ELEMENT I2ald-rtb-mac-count (I2ald-rtb-mac-count-entry)*>

<!ELEMENT I2ald-rtb-mac-count-entry (rtb-name | bd-name | rtb-mac-count |
I2ald-rtb-if-mac-count | I2ald-rtb-learn-vlan-mac-count)*>

<!ELEMENT I2ald-rtb-mac-learn-address (#PCDATA)>

<!ELEMENT I2ald-rtb-mac-learn-count (I2ald-rtb-mac-learn-address |
I2ald-rtb-mac-learn-num-times)*>

<!ELEMENT I2ald-rtb-mac-learn-num-times (#PCDATA)>

```

```

<!ELEMENT I2ald-rtb-mac-limit-timeout (#PCDATA)>

<!ELEMENT I2ald-rtb-mac-limit-wm (#PCDATA)>

<!ELEMENT I2ald-rtb-macdb (I2ald-macdb-rtb-name | I2ald-mac-entry)*>

<!ELEMENT I2ald-sequence-number (#PCDATA)>

<!ELEMENT I2ald-software-mac-learn-toggle-count (#PCDATA)>

<!ELEMENT I2ald-software-mac-learning-status (#PCDATA)>

<!ELEMENT I2ald-statistics-status (#PCDATA)>

<!ELEMENT I2ald-statistics-toggle-count (#PCDATA)>

<!ELEMENT I2ald-total-intf-mac-count (#PCDATA)>

<!ELEMENT I2ald-vpls-flood-event-info (event-name | event-type | event-owner | event-op
| event-error)*>
<!ATTLIST I2ald-vpls-flood-event-info junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-vpls-flood-event-list (I2ald-vpls-flood-event-info)*>

<!ELEMENT I2ald-vpls-flood-event-queue (I2ald-vpls-flood-next-event |
I2ald-vpls-flood-event-list)*>

<!ELEMENT I2ald-vpls-flood-instance (I2ald-vpls-lr-information)*>

<!ELEMENT I2ald-vpls-flood-instance-information (instance-name | num-active-ce-iffs |
num-active-ve-iffs | flood-route)*>
<!ATTLIST I2ald-vpls-flood-instance-information junos:style CDATA #IMPLIED>

<!ELEMENT I2ald-vpls-flood-next-event (I2ald-vpls-flood-event-info)*>

<!ELEMENT I2ald-vpls-flood-route-information (flood-route)*>

<!ELEMENT I2ald-vpls-lr-information (logical-system-info |
I2ald-vpls-flood-instance-information)*>

<!ELEMENT I2bd-id (#PCDATA)>

<!ELEMENT I2bd-vlan-id (#PCDATA)>

<!ELEMENT I2rtb-bridging-domain (#PCDATA)>

<!ELEMENT I2rtb-config-bd-vlan (#PCDATA)>

<!ELEMENT I2rtb-config-flags (#PCDATA)>

<!ELEMENT I2rtb-config-operation (#PCDATA)>

<!ELEMENT I2rtb-config-params (#PCDATA)>

<!ELEMENT I2rtb-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-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 l2rtb-table-active-mac-count (#PCDATA)>

<!ELEMENT l2rtb-table-mac-count (#PCDATA)>

<!ELEMENT l2rtb-table-name (#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 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 34

# 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/9.3R1/junos-l2cp>. To review reference pages for the tags, see “Summary of Layer 2 Control Protocol Response Tags” on page 973.

```
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```

```
<!-- All rights reserved. -->
```

```
<!-- junos-l2cp.dtd -->
```

```
<!ELEMENT administrative-mode (#PCDATA)>
```

```
<!ELEMENT administrative-state (#PCDATA)>
```

```
<!ELEMENT authentication-failed-interface (#PCDATA)>
```

```
<!ELEMENT authentication-failed-mac-addr (#PCDATA)>
```

```
<!ELEMENT authentication-failed-user (#PCDATA)>
```

```
<!ELEMENT boundary-port (#PCDATA)>
```

```
<!ELEMENT bpdus-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 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 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 extended-system-id (#PCDATA)>

<!ELEMENT forward-delay-configured (#PCDATA)>

<!ELEMENT forward-delay-learned (#PCDATA)>

<!ELEMENT frame-control (#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 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-suplicants (#PCDATA)>

<!ELEMENT number-of-retries (#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 protocol (#PCDATA)>

```

```

<!ELEMENT protocols (#PCDATA)>

<!ELEMENT quiet-period (#PCDATA)>

<!ELEMENT reauthentication (#PCDATA)>

<!ELEMENT reauthentication-due (#PCDATA)>

<!ELEMENT reauthentication-interval (#PCDATA)>

<!ELEMENT regional-root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT role (#PCDATA)>

<!ELEMENT root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT root-cost (#PCDATA)>

<!ELEMENT root-port (#PCDATA)>

<!ELEMENT routing-instance-name (#PCDATA)>

<!ELEMENT server-timeout (#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)*>
```



## Chapter 35

# 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/9.3R1/junos-lfm`. To review reference pages for the tags, see “Summary of Link-Fault Management Response Tags” on page 1010.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-lfm.dtd -->
```

```
<!ELEMENT Ifmd-action-profile-execution-count (#PCDATA)>
```

```
<!ELEMENT Ifmd-action-profile-information (Ifmd-action-profile-name |  
Ifmd-action-profile-invoke-count | Ifmd-action-profile-execution-count)*>
```

```
<!ELEMENT Ifmd-action-profile-invoke-count (#PCDATA)>
```

```
<!ELEMENT Ifmd-action-profile-name (#PCDATA)>
```

```
<!ELEMENT Ifmd-clear-output (#PCDATA)>
```

```
<!ELEMENT Ifmd-critical-event-received (#PCDATA)>
```

```
<!ELEMENT Ifmd-discovery-flags (Ifmd-flag-remote-stable | Ifmd-flag-remote-evaluating |  
Ifmd-flag-remote-state-valid | Ifmd-flag-local-satisfied | Ifmd-flag-local-stable |  
Ifmd-pdu-flags)*>
```

```
<!ELEMENT Ifmd-discovery-state (#PCDATA)>
```

```
<!ELEMENT Ifmd-dying-gasp-received (#PCDATA)>
```

```
<!ELEMENT Ifmd-event-pdus-received (#PCDATA)>
```

```
<!ELEMENT Ifmd-event-pdus-transmitted (#PCDATA)>
```

```
<!ELEMENT Ifmd-event-received-frame-count (#PCDATA)>
```

```
<!ELEMENT Ifmd-event-received-frame-error (Ifmd-event-received-frame-error-window |  
Ifmd-event-received-frame-error-threshold | Ifmd-event-received-frame-error-count |  
Ifmd-event-received-frame-error-total-count | Ifmd-event-received-frame-count)*>
```

```

<!ELEMENT Ifmd-event-received-frame-error-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-error-threshold (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-error-total-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-error-window (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-period-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-period-error
(Ifmd-event-received-frame-period-error-window |
Ifmd-event-received-frame-period-error-threshold |
Ifmd-event-received-frame-period-error-count |
Ifmd-event-received-frame-period-error-total-count |
Ifmd-event-received-frame-period-count)*>

<!ELEMENT Ifmd-event-received-frame-period-error-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-period-error-threshold (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-period-error-total-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-period-error-window (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-seconds-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-seconds-error
(Ifmd-event-received-frame-seconds-error-window |
Ifmd-event-received-frame-seconds-error-threshold |
Ifmd-event-received-frame-seconds-error-count |
Ifmd-event-received-frame-seconds-error-total-count |
Ifmd-event-received-frame-seconds-count)*>

<!ELEMENT Ifmd-event-received-frame-seconds-error-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-seconds-error-threshold (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-seconds-error-total-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-frame-seconds-error-window (#PCDATA)>

<!ELEMENT Ifmd-event-received-symbol-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-symbol-error (Ifmd-event-received-symbol-error-window |
Ifmd-event-received-symbol-error-threshold | Ifmd-event-received-symbol-error-count |
Ifmd-event-received-symbol-error-total-count | Ifmd-event-received-symbol-count)*>

<!ELEMENT Ifmd-event-received-symbol-error-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-symbol-error-threshold (#PCDATA)>

<!ELEMENT Ifmd-event-received-symbol-error-total-count (#PCDATA)>

<!ELEMENT Ifmd-event-received-symbol-error-window (#PCDATA)>

```



```

<!ELEMENT Ifmd-event-transmitted-frame-count (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-frame-error
(Ifmd-event-transmitted-frame-error-window |
Ifmd-event-transmitted-frame-error-threshold | Ifmd-event-transmitted-frame-error-count |
Ifmd-event-transmitted-frame-error-total-count | Ifmd-event-transmitted-frame-count)*>

<!ELEMENT Ifmd-event-transmitted-frame-error-count (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-frame-error-threshold (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-frame-error-total-count (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-frame-error-window (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-symbol-count (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-symbol-error
(Ifmd-event-transmitted-symbol-error-window |
Ifmd-event-transmitted-symbol-error-threshold |
Ifmd-event-transmitted-symbol-error-count |
Ifmd-event-transmitted-symbol-error-total-count |
Ifmd-event-transmitted-symbol-count)*>

<!ELEMENT Ifmd-event-transmitted-symbol-error-count (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-symbol-error-threshold (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-symbol-error-total-count (#PCDATA)>

<!ELEMENT Ifmd-event-transmitted-symbol-error-window (#PCDATA)>

<!ELEMENT Ifmd-events (Ifmd-events-received | Ifmd-events-transmitted)*>

<!ELEMENT Ifmd-events-received (Ifmd-event-received-symbol-error |
Ifmd-event-received-frame-error | Ifmd-event-received-frame-period-error |
Ifmd-event-received-frame-seconds-error)*>

<!ELEMENT Ifmd-events-transmitted (Ifmd-event-transmitted-symbol-error |
Ifmd-event-transmitted-frame-error)*>

<!ELEMENT Ifmd-flag-local-satisfied EMPTY>

<!ELEMENT Ifmd-flag-local-stable EMPTY>

<!ELEMENT Ifmd-flag-remote-evaluating EMPTY>

<!ELEMENT Ifmd-flag-remote-stable EMPTY>

<!ELEMENT Ifmd-flag-remote-state-valid EMPTY>

<!ELEMENT Ifmd-information (Ifmd-interface-information |
Ifmd-action-profile-information)*>
<!ATTLIST Ifmd-information junos:style CDATA #IMPLIED>

<!ELEMENT Ifmd-information-pdus-received (#PCDATA)>

```

```

<!ELEMENT Ifmd-information-pdus-transmitted (#PCDATA)>

<!ELEMENT Ifmd-interface-information (Ifmd-interface-name | Ifmd-status |
Ifmd-discovery-state | Ifmd-discovery-flags | Ifmd-peer-address | Ifmd-peer-mux-action |
Ifmd-peer-parser-action | Ifmd-peer-config-mode | Ifmd-peer-config-unidirectional |
Ifmd-peer-config-loopback | Ifmd-peer-config-link-events |
Ifmd-peer-config-variable-request | Ifmd-loopback-local-enabled |
Ifmd-loopback-remote-enabled | Ifmd-statistics | Ifmd-events)*>

<!ELEMENT Ifmd-interface-name (#PCDATA)>

<!ELEMENT Ifmd-link-fault-received (#PCDATA)>

<!ELEMENT Ifmd-loopback-control-pdus-received (#PCDATA)>

<!ELEMENT Ifmd-loopback-control-pdus-transmitted (#PCDATA)>

<!ELEMENT Ifmd-loopback-local-enabled EMPTY>

<!ELEMENT Ifmd-loopback-remote-enabled EMPTY>

<!ELEMENT Ifmd-organization-pdus-received (#PCDATA)>

<!ELEMENT Ifmd-organization-pdus-transmitted (#PCDATA)>

<!ELEMENT Ifmd-pdu-flags (#PCDATA)>

<!ELEMENT Ifmd-peer-address (#PCDATA)>

<!ELEMENT Ifmd-peer-config-link-events (#PCDATA)>

<!ELEMENT Ifmd-peer-config-loopback (#PCDATA)>

<!ELEMENT Ifmd-peer-config-mode (#PCDATA)>

<!ELEMENT Ifmd-peer-config-unidirectional (#PCDATA)>

<!ELEMENT Ifmd-peer-config-variable-request (#PCDATA)>

<!ELEMENT Ifmd-peer-mux-action (#PCDATA)>

<!ELEMENT Ifmd-peer-parser-action (#PCDATA)>

<!ELEMENT Ifmd-statistics (Ifmd-statistics-received | Ifmd-statistics-transmitted)*>

<!ELEMENT Ifmd-statistics-received (Ifmd-information-pdus-received |
Ifmd-event-pdus-received | Ifmd-variable-request-pdus-received |
Ifmd-variable-response-pdus-received | Ifmd-loopback-control-pdus-received |
Ifmd-organization-pdus-received | Ifmd-unknown-pdus-received |
Ifmd-critical-event-received | Ifmd-dying-gasp-received | Ifmd-link-fault-received)*>

<!ELEMENT Ifmd-statistics-transmitted (Ifmd-information-pdus-transmitted |
Ifmd-event-pdus-transmitted | Ifmd-variable-request-pdus-transmitted |
Ifmd-variable-response-pdus-transmitted | Ifmd-loopback-control-pdus-transmitted |
Ifmd-organization-pdus-transmitted | Ifmd-unknown-pdus-transmitted)*>

<!ELEMENT Ifmd-status (#PCDATA)>

```

<!ELEMENT Ifmd-unknown-pdus-received (#PCDATA)>

<!ELEMENT Ifmd-unknown-pdus-transmitted (#PCDATA)>

<!ELEMENT Ifmd-variable-request-pdus-received (#PCDATA)>

<!ELEMENT Ifmd-variable-request-pdus-transmitted (#PCDATA)>

<!ELEMENT Ifmd-variable-response-pdus-received (#PCDATA)>

<!ELEMENT Ifmd-variable-response-pdus-transmitted (#PCDATA)>



## Chapter 36

# 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 platforms. The associated XML namespace is `http://xml.juniper.net/junos/9.3R1/junos-license`. To review reference pages for the tags, see “Summary of License Response Tags” on page 1001.

```
<!-- Copyright (c) 2000-2008, 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 37

# 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/9.3R1/junos-licensed-feature-metadata`. To review reference pages for the tags, see “Summary of Licensed Feature Metadata Response Tags” on page 1008.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-licensed-feature-metadata.dtd -->
```

```
<!ELEMENT alias (base-feature | cumulative-value)*>
```

```
<!ELEMENT base-feature (#PCDATA)>
```

```
<!ELEMENT cumulative-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 38

# DTD for MPLS OAM Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-mplsamd.dtd`, which lists the JUNOS XML tags that contain MPLS OAM information. The associated XML namespace is `http://xml.juniper.net/junos/9.3R1/junos-mplsamd`. To review reference pages for the tags, see “Summary of MPLS OAM ResponseTags” on page 1039.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
<!-- All rights reserved. -->
<!-- junos-mplsamd.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 39

# 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/9.3R1/junos-mip`. To review reference pages for the tags, see “Summary of MIP Response Tags” on page 1023.

```
<!-- Copyright (c) 2000-2008, 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)*>

<!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-nai (#PCDATA)-->

<!--ELEMENT mip-security (mip-nai | mip-home-address | mip-security-spi |
mip-security-algorithm | mip-security-key | mip-security-replay | mip-security-replay-type |
mip-security-time-tolerance | mip-security-count)*-->

<!--ELEMENT mip-security-algorithm (#PCDATA)-->

<!--ELEMENT mip-security-count (#PCDATA)-->

<!--ELEMENT mip-security-information (mip-security)*-->
<!--ATTLIST mip-security-information junos:style CDATA #IMPLIED-->

<!--ELEMENT mip-security-key (#PCDATA)-->

<!--ELEMENT mip-security-replay (#PCDATA)-->

<!--ELEMENT mip-security-replay-type (#PCDATA)-->

<!--ELEMENT mip-security-spi (#PCDATA)-->

<!--ELEMENT mip-security-time-tolerance (#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-total-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-total-count (#PCDATA)-->

<!--ELEMENT mip-visitor (mip-nai | mip-home-address | mip-home-agent |
mip-care-of-address | mip-visitor-time-requested | mip-visitor-time-allotted |
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-allotted (#PCDATA)-->

<!--ELEMENT mip-visitor-time-remaining (#PCDATA)-->

<!--ELEMENT mip-visitor-time-requested (#PCDATA)-->

<!--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 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 stale-challenge (#PCDATA)>  
<!ELEMENT start-addr (#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 40

# 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/9.3R1/junos-mspinfo`. To review reference pages for the tags, see Summary of MSP Response Tags on page 1038.

### **<mspinfo-raw-output>**

<b>Usage</b>	<pre>&lt;rpc-reply&gt;   &lt;mspinfo-raw-output&gt;     &lt;interface-name&gt;interface-name&lt;/interface-name&gt;     &lt;raw-output&gt;raw-output&lt;/raw-output&gt;   &lt;/mspinfo-raw-output&gt; &lt;/rpc-reply&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p>&lt;interface-name&gt;—Name of the adaptive services interface.</p> <p>&lt;raw-output&gt;—Raw Output Field.</p>



## Chapter 41

# 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/9.3R1/junos-passive-monitoring`. To review reference pages for the tags, see “Summary of Passive Monitoring Interfaces Response Tags” on page 1046.

```
<!-- Copyright (c) 2000-2008, 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 42

# 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/9.3R1/junos-pgm`. To review reference pages for the tags, see “Summary of PGM Response Tags” on page 1053.

```
<!-- Copyright (c) 2000-2008, 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 43

# 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/9.3R1/junos-ppm`. To review reference pages for the tag elements, see “Summary of Periodic Packet Management Response Tags” on page 1061.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-ppm.dtd -->
```

```
<!ELEMENT adjacency-bfd-discriminator (#PCDATA)>
```

```
<!ELEMENT adjacency-bfd-routing-table-index (#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-isis-type | adjacency-bfd-discriminator | adjacency-bfd-routing-table-index |  
adjacency-ldp-source | adjacency-ldp-routing-table-index | adjacency-stp-source-key |  
adjacency-pfe-handle | adjacency-pfe-addr)*>
```

```
<!ELEMENT adjacency-distributed EMPTY>
```

```
<!ELEMENT adjacency-do-not-age EMPTY>
```

```
<!ELEMENT adjacency-isis-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 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-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-transmissions (#PCDATA)>

<!ELEMENT total-adjacencies (#PCDATA)>

<!ELEMENT total-connections (#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 44

# 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/9.3R1/junos-ppp`. To review reference pages for the tag elements, see “Summary of PPP Response Tags” on page 1066.

```
<!-- Copyright (c) 2000-2008, 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 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 | 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)*>

```

```
<!ATTLIST ppp-statistics-information junos:style CDATA #IMPLIED>

<!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)>
```

## Chapter 45

# 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/9.3R1/junos-pppoed`. To review reference pages for the tags, see “Summary of PPP over Ethernet Response Tags” on page 1077.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-pppoed.dtd -->
```

```
<!ELEMENT ac-mac (#PCDATA)>
```

```
<!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 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 pado-received (#PCDATA)>

<!ELEMENT pado-sent (#PCDATA)>

<!ELEMENT pado-tmo (#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 |
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 | ac-mac | auto-reconnect |
idle-timeout | session-uptime)*>

<!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 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 46

# 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/9.3R1/junos-probe-tests`. To review reference pages for the tags, see “Summary of Probe-Test Response Tags” on page 1083.

```
<!-- Copyright (c) 2000-2008, 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-nexthdr |  
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 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)>
```



## Chapter 47

# 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/9.3R1/junos-productmetadata`. To review reference pages for the tag elements, see “Summary of Product Metadata Response Tags” on page 1095.

```
<!-- Copyright (c) 2000-2008, 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-symb-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-spm-b-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 48

# 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/9.3R1/junos-rdd>. To review reference pages for the tags, see “Summary of Redundant Interfaces Response Tags” on page 1098.

```
<!-- Copyright (c) 2000-2008, 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-information (interface-redundancy)*>
```

```
<!ELEMENT last-change (#PCDATA)>
```

```
<!ELEMENT primary (#PCDATA)>
```

```
<!ELEMENT secondary (#PCDATA)>
```

```
<!ELEMENT state (#PCDATA)>
```



## Chapter 49

# 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/9.3R1/junos-res-cleanup`. To review reference pages for the tags, see “Summary of Resource Cleanup Response Tags” on page 1099.

```
<!-- Copyright (c) 2000-2008, 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 50

# 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/9.3R1/junos-routing`. To review reference pages for the tags, see “Summary of Routing Protocols Response Tags” on page 1108.

```
<!-- Copyright (c) 2000-2008, 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 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-pe-group-name (#PCDATA)>
<!ELEMENT backup-pes (multicast-backup-pe-address)*>
<!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-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 |
igmp-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)>
<!-- ATTENTION: 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)*>

<!ELEMENT bgp-unsync-pending (bgp-unsync-entry)*>

<!ELEMENT bgp-unsync-pending-tm (#PCDATA)>
<!-- ATTENTION: bgp-unsync-pending-tm junos:seconds CDATA #IMPLIED -->

<!ELEMENT bgp-unsync-queue (bgp-unsync-entry)*>

<!ELEMENT bgp-unsync-timer (#PCDATA)>
<!-- ATTENTION: bgp-unsync-timer junos:seconds CDATA #IMPLIED -->

<!ELEMENT bidirectional EMPTY>

<!ELEMENT bits (#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 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-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)>

<!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)>

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<!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)>

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<!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>
<!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)>

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<!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)>

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<!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-snmpp | 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)>

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<!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>

<!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)>

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<!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)>

<!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)*>

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<!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)>

<!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)*>

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<!ATTLIST explicit-route heading CDATA #IMPLIED>

<!ELEMENT explicit-route-type (#PCDATA)>

<!ELEMENT export-count (#PCDATA)>

<!ELEMENT export-list (#PCDATA)>

<!ELEMENT export-policy (#PCDATA)>

<!ELEMENT extended-community (#PCDATA)>

<!ELEMENT extended-information (#PCDATA)>

<!ELEMENT external-peer-count (#PCDATA)>

<!ELEMENT external-prefix-metric (#PCDATA)>

<!ELEMENT family (#PCDATA)>

<!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)>

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<!ELEMENT filter-type (#PCDATA)>

<!ELEMENT first-hop-address (#PCDATA)>

<!ELEMENT first-update (#PCDATA)>
<!ATTLIST first-update junos:seconds CDATA #IMPLIED>

<!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)>

<!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)>

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<!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)>

<!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)>

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<!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-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>

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<!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>

<!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)*>
<!--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)*-->

<!--ELEMENT instance-entry-summary (neighbor-summary | c-multicast-summary)*-->

<!ELEMENT instance-flags (#PCDATA)>

<!ELEMENT instance-id (#PCDATA)>

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<!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)*>

<!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-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)*>

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<!ELEMENT interface-link-name (#PCDATA)>

<!ELEMENT interface-max-bandwidth (#PCDATA)>

<!ELEMENT interface-mismatch-count (#PCDATA)>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interface-priority (#PCDATA)>

<!ELEMENT interface-remaining-bandwidth (#PCDATA)>

<!ELEMENT interface-repository-state (#PCDATA)>

<!ELEMENT interface-reverse-oif-mapping (#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)*>

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<!ELEMENT ipv6-ra-advertisement-sent-time (#PCDATA)>
<!ATTLIST ipv6-ra-advertisement-sent-time junos:seconds CDATA #IMPLIED>

<!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)>

<!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-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)*>
```

```
<!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 | 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 | reachability-delay |
reachability-expense | reachability-error)*>

<!ELEMENT isis-next-hop (#PCDATA)>

<!ELEMENT isis-next-hop-snpa (#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-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)>

<!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)*>
```

```
<!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 | isis-next-hop-snpa)*>
```

```
<!ATTLIST isis-route junos:style CDATA #IMPLIED>
```

```
<!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)*>

<!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)>

<!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-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)*>

<!ELEMENT isis-wide-metrics EMPTY>

<!ELEMENT iso-prefix (#PCDATA)>

<!ELEMENT join-family (pim-instance | address-family | join-group)*>

<!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-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>

<!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)>

<!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)>

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<!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)>

<!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-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)*>

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<!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)>

<!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)*>

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<!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)>

<!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>

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<!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)*>

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<!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)>

<!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)>

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<!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)>

<!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)>

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<!ELEMENT lm-imp-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)*>

<!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-imp-control-channels | lm-peer-te-links)*>

<!ELEMENT lm-peer-imp-control-channels (lm-imp-control-channel-local-id |
lm-imp-control-channel-remote-id | lm-imp-control-channel-state |
lm-imp-control-channel-flags | lm-imp-control-channel-received-message-id |
lm-imp-control-channel-sent-message-id | lm-imp-control-channel-rcv-seq-num |
lm-imp-control-channel-tx-seq-num)*>

<!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-links (lm-peer-te-link)*>

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<!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)>

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<!ELEMENT Im-source (#PCDATA)>

<!ELEMENT Im-stale-ack (#PCDATA)>

<!ELEMENT Im-stale-nack (#PCDATA)>

<!ELEMENT Im-state (#PCDATA)>

<!ELEMENT Im-statistics-information (Im-peer-statistics)*>

<!ELEMENT Im-switching (#PCDATA)>

<!ELEMENT Im-sys-id (#PCDATA)>

<!ELEMENT Im-te-link-flags (#PCDATA)>

<!ELEMENT Im-te-link-information (Im-te-link-name | Im-local-id | Im-remote-id | Im-state |
Im-te-link-flags | Im-te-link-local-flags | Im-local-address | Im-remote-address |
Im-encoding | Im-switching | Im-min-bandwidth | Im-max-bandwidth | Im-total-bandwidth |
Im-avail-bandwidth | Im-te-link-resources)*>

<!ELEMENT Im-te-link-local-flags (Im-te-link-nack-sent-flag)*>

<!ELEMENT Im-te-link-nack-sent-flag EMPTY>

<!ELEMENT Im-te-link-name (#PCDATA)>

<!ELEMENT Im-te-link-resource (Im-resource-name | Im-resource-type | Im-sys-id |
Im-resource-state | Im-resource-flags | Im-resource-local-id | Im-resource-remote-id |
Im-resource-local-addr | Im-resource-remote-addr | Im-resource-bandwidth |
Im-resource-avail-bandwidth | Im-resource-traffic-params | Im-resource-max-allocations |
Im-resource-num-allocations | Im-resource-in-use | Im-resource-lsp-name |
Im-resource-allocation-context)*>
<!ATTLIST Im-te-link-resource junos:style CDATA #IMPLIED>

<!ELEMENT Im-te-link-resources (Im-te-link-resource)*>

<!ELEMENT Im-te-link-root-information (Im-te-link-information)*>

<!ELEMENT Im-tossed-packets (Im-packet-type | Im-packet-count)*>

<!ELEMENT Im-total-bandwidth (#PCDATA)>

<!ELEMENT Im-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)>

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<!ELEMENT local-ifindex (#PCDATA)>

<!ELEMENT local-interface (interface-name | interface-status | interface-encapsulation |
working-status | 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)>

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<!ELEMENT Isas-acknowledged (#PCDATA)>  
<!ELEMENT Isas-acknowledged-5seconds (#PCDATA)>  
<!ELEMENT Isas-flooded (#PCDATA)>  
<!ELEMENT Isas-flooded-5seconds (#PCDATA)>  
<!ELEMENT Isas-high-prio-flooded (#PCDATA)>  
<!ELEMENT Isas-high-prio-flooded-5seconds (#PCDATA)>  
<!ELEMENT Isas-nbr-transmit (#PCDATA)>  
<!ELEMENT Isas-nbr-transmit-5seconds (#PCDATA)>  
<!ELEMENT Isas-requested (#PCDATA)>  
<!ELEMENT Isas-requested-5seconds (#PCDATA)>  
<!ELEMENT Isas-retransmit (#PCDATA)>  
<!ELEMENT Isas-retransmit-5seconds (#PCDATA)>  
<!ELEMENT Isdb-expiration-time (#PCDATA)>  
<!ELEMENT Isdb-timer-type (#PCDATA)>  
<!ELEMENT Isp-attributes (#PCDATA)>  
<!ELEMENT Isp-bandwidth (#PCDATA)>  
<!ELEMENT Isp-count (#PCDATA)>  
<!ELEMENT Isp-creation-time (#PCDATA)>  
<!ELEMENT Isp-description (#PCDATA)>  
<!ELEMENT Isp-diffserv-info (#PCDATA)>  
<!ELEMENT Isp-diffserv-te-info (#PCDATA)>  
<!ELEMENT Isp-flags (#PCDATA)>  
<!ELEMENT Isp-hold-priority (#PCDATA)>  
<!ELEMENT Isp-hoplimit (#PCDATA)>  
<!ELEMENT Isp-id (#PCDATA)>  
<!ELEMENT Isp-interval (#PCDATA)>  
<!ELEMENT Isp-length (#PCDATA)>  
<!ELEMENT Isp-name (#PCDATA)>

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<!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-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-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)>
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<!ELEMENT maximum-helper-recovery-time (#PCDATA)>  
<!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)>

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<!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-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-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)>

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<!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)*>
<!ATTLIST mgm-group junos:style CDATA #IMPLIED>

<!ELEMENT mgm-group-count (#PCDATA)>

<!ELEMENT mgm-group-mode-type (#PCDATA)>

<!ELEMENT mgm-group-policy (#PCDATA)>

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<!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-group-policy | mgm-host)*>

<!-- ELEMENT mgm-interface-all EMPTY -->

<!-- ELEMENT mgm-interface-groups (interface-name | mgm-group)* -->

<!-- ELEMENT mgm-interface-state (#PCDATA) -->

<!-- ELEMENT mgm-interface-version (#PCDATA) -->

<!-- ELEMENT mgm-other-statistic (statistic-name | statistic-count)* -->
<!-- ATTLIST mgm-other-statistic junos:style CDATA #IMPLIED -->

<!-- ELEMENT mgm-promiscuous-mode (#PCDATA) -->

<!-- ELEMENT mgm-source-timeout (#PCDATA) -->

<!-- ELEMENT mgm-ssm-map (#PCDATA) -->

<!-- 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)* -->

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<!ELEMENT mld-hosts-information (mgm-disabled-interface-name | mgm-interface)*>

<!ELEMENT mld-interface-information (mgm-interface | mgm-configured-parameters |
mgm-derived-parameters)*>

<!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)*>

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<!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-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-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 | 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)>

<!ELEMENT msdp-accept EMPTY>

<!ELEMENT msdp-active-source-limit-exceeded (#PCDATA)>

<!ELEMENT msdp-connect-retries (#PCDATA)>

<!ELEMENT msdp-errors-received (#PCDATA)>

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<!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)*>

<!ELEMENT msdp-peer-timeout (#PCDATA)>

<!ELEMENT msdp-peer-timeouts (#PCDATA)>

<!ELEMENT msdp-reject EMPTY>

<!ELEMENT msdp-remote-closes (#PCDATA)>

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<!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)>
<!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)*>

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<!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)>

<!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>

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<!ELEMENT multicast-interface (interface-name | interface-max-bandwidth |
interface-remaining-bandwidth | interface-reverse-oif-mapping |
interface-subscriber-leave-timer)*>

<!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-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-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)>

<!ELEMENT multicast-route-timeout (#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)*>

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<!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)*>

<!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>

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<!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)>

<!ELEMENT neighbor-identifier (#PCDATA)>

<!ELEMENT neighbor-idle (#PCDATA)>
<!-- ATTENTION: 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>
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<!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 | 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)>

<!ELEMENT next-hop-type (#PCDATA)>

<!ELEMENT next-hops-family (address-family | iflist-next-hop)*>

<!ELEMENT nh (selected-next-hop | weight | balance | 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-local-interface (#PCDATA)>

<!ELEMENT nh-reference-count (#PCDATA)>

<!ELEMENT nh-service (#PCDATA)>

<!ELEMENT nh-service-app-data (#PCDATA)>

<!ELEMENT nh-service-pkt-dist (#PCDATA)>

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<!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-decrement-ttl EMPTY>

<!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)>

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<!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-state (#PCDATA)>  
<!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)>

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<!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)*>
<!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>

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<!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 | adj-count | router-priority |
interface-secondary | 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)*>

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<!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)>

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<!ELEMENT ospf-network-lsa (address-mask | attached-router)*>

<!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)>

<!ELEMENT ospf-restart-grace-period (#PCDATA)>

<!ELEMENT ospf-restart-helper-mode (#PCDATA)>

<!ELEMENT ospf-route (address-prefix | route-path-type | route-type | next-hop-type |
interface-cost | next-hop-name | next-hop-address | 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)>

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<!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)>

<!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>

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<!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 | adj-count | router-priority | 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)*>

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<!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 |
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 (address-prefix | route-path-type | route-type | next-hop-type |
interface-cost | next-hop-name | next-hop-address | 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)>

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<!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)*>
<!-- 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)>

<!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)*>
<!-- path-available-bandwidth heading CDATA #IMPLIED -->

<!ELEMENT path-count (#PCDATA)>

<!ELEMENT path-flags (#PCDATA)>

<!ELEMENT path-history (sequence-number | time | log | route)*>

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<!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-interface-id (#PCDATA)>
<!ELEMENT path-state-nh-avoid-address (#PCDATA)>
<!ELEMENT path-state-nh-ero (#PCDATA)>
<!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-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)>
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<!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>

<!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)>

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<!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-interface-name | mdt-tunnel-direction | mdt-pim-instance |
mdt-default-tunnel-information | mdt-active-tunnel)*>
<!ATTLIST pim-mdt-information junos:style CDATA #IMPLIED>

<!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>

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<!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)>

<!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>

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<!ELEMENT prefix-extern EMPTY>

<!ELEMENT prefix-flag (#PCDATA)>

<!ELEMENT prefix-length (#PCDATA)>

<!ELEMENT prefix-limit (nlri-type | prefix-count | limit-action | warning-percentage)*>

<!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 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 | 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 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)>

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<!ELEMENT redundant-sources (multicast-source-address)*>

<!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)*>
<!--LIST 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)>

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<!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)>
<!-- ATTENTION: 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)*>

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<!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)>

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<!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)>

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<!ELEMENT route-prefix (#PCDATA)>

<!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-self-id | path-state-tag | 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)*>
<!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 |
self-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)*>

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<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 | 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 rsv-queue-addr (#PCDATA)>

<ELEMENT rsv-queue-instance (#PCDATA)>

<ELEMENT rsv-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)>

```

```
<!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 | 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)>
```

```

<!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 rtxport-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)>

<!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)>

```

<!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 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)*>
<!--LIST 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)*>

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<!ELEMENT task-block-list (task-block)*>

<!ELEMENT task-gres-state (#PCDATA)>

<!ELEMENT task-information (task)*>

<!ELEMENT task-lite-page (t1p-name | t1p-alloc-pages | t1p-alloc-bytes |
t1p-max-alloc-pages | t1p-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)>

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```

<!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)>

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<!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)>

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<!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)*>
<!-- ATTENTION: 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)>

<!-- ted-link-forwarding-adjacency EMPTY -->

<!ELEMENT ted-link-from (#PCDATA)>

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<!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)>

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<!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)>

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<!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 traffic-class (#PCDATA)>

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<!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 tx-rate (#PCDATA)>  
<!ELEMENT tx-rate-percent (#PCDATA)>  
<!ELEMENT type (#PCDATA)>  
<!ELEMENT type-value (#PCDATA)>  
<!ELEMENT type7 EMPTY>  
<!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-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 51

# 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/9.3R1/junos-rtinfo>. To review reference pages for the tags, see “Summary of Routing and Forwarding Table Response Tags” on page 1102.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-rtinfo.dtd -->
```

```
<!ELEMENT address-family (#PCDATA)>
```

```
<!ELEMENT address-family-number (#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 | via | nh-weight | nh-balance
| nh-composite-num-nhs | nh-composite-nh-index | nh-composite-function |
nh-composite-num-derived-nhs | nh-composite-derived-nh-index)*>

<!ELEMENT nh-balance (#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-reference-count (#PCDATA)>

<!ELEMENT nh-type (#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 52

# 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/9.3R1/junos-rpm`. To review reference pages for the tags, see “Summary of RPM Response Tags” on page 1489.

```
<!-- Copyright (c) 2000-2008, 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)*>
<!-- ATTENTION: 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 53

# 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/9.3R1/junos-sdx`. To review reference pages for the tags, see “Summary of SDX Response Tags” on page 1506.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
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```

```
<!-- 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 54

# 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/9.3R1/junos-services-accounting`. To review reference pages for the tags, see “Summary of Services Accounting Response Tags” on page 1508.

```
<!-- Copyright (c) 2000-2008, 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-mask (#PCDATA)>
```

```
<!ELEMENT destination-port (#PCDATA)>
```

```
<!-- ATTENTION: 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-snmf-interface-index | output-snmf-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 | flow-count)*>
```

```
<!ELEMENT end-time (#PCDATA)>
```

```
<!-- ATTENTION: 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)*>

<!ELEMENT flow-aggregate-template-detail-ipv4 (detail-entry)*>
<!ATTLIST flow-aggregate-template-detail-ipv4 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 (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-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 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-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 55

# 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/9.3R1/junos-services-flow-collector`. To review reference pages for the tags, see “Summary of Services Flow Collector Response Tags” on page 1522.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- 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 56

# 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/9.3R1/junos-shutdown>. To review reference pages for the tags, see “Summary of Shutdown Response Tags” on page 1530.

```
<!-- Copyright (c) 2000-2008, 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 57

# 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/9.3R1/junos-snmp`. To review reference pages for the tags, see “Summary of SNMP Response Tags” on page 1531.

```
<!-- Copyright (c) 2000-2008, 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 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)*>

<!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-username (#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 58

# DTD for Subscribers Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-subscribers.dtd`, which lists the JUNOS XML tags that contain information about Subscribers. The associated XML namespace is `http://xml.juniper.net/junos/9.3R1/junos-subscribers`. To review reference pages for the tags, see “Summary of Subscribers Response Tags” on page 1560.

```
<!-- Copyright (c) 2000-2008, 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 input-error-message (#PCDATA)>
```

```
<!ELEMENT interface (#PCDATA)>
```

```
<!ELEMENT ip-address (#PCDATA)>
```

```
<!ELEMENT logical-system (#PCDATA)>
```

```
<!ELEMENT login-time (#PCDATA)>
```

```
<!ELEMENT mac-address (#PCDATA)>
```

```
<!ELEMENT no-information (#PCDATA)>
```

```
<!ELEMENT number-of-subscribers (#PCDATA)>
```

```
<!ELEMENT profile (#PCDATA)>
```

```
<!ELEMENT routing-instance (#PCDATA)>
```

```
<!ELEMENT subscriber (access-type | user-name | ip-address | logical-system |  
routing-instance | interface | vlan-id | profile | mac-address | login-time |  
number-of-subscribers | no-information)*>
```

```
<!ATTLIST subscriber junos:style CDATA #IMPLIED>
```

<!ELEMENT subscribers-information (subscriber | error)\*>

<!ELEMENT user-name (#PCDATA)>

<!ELEMENT vlan-id (#PCDATA)>

## Chapter 59

# 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/9.3R1/junos-process`. To review reference pages for the tags, see Summary of System Process Response Tags on page 1565.

```
<!-- Copyright (c) 2000-2008, 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 60

# 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/9.3R1/junos-tmgd`. To review reference pages for the tags, see “Summary of Telephony Gateway Module Response Tags” on page 1557.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
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```

```
<!-- junos-tmgd.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 61

# 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/9.3R1/junos-helper>. To review reference pages for the tags, see “Summary of UDP Forwarding Helper Response Tags” on page 1563.

```
<!-- Copyright (c) 2000-2008, 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 62

# 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/9.3R1/junos-vrrpd`. To review reference pages for the tags, see “Summary of Virtual Router Redundancy Protocol Response Tags” on page 1579.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
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<!-- junos-vrrpd.dtd -->
```

```
<!ELEMENT accept-data-mode (#PCDATA)>
```

```
<!ELEMENT active (#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 |
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)*>

<!ELEMENT vrrp-interface-profile (interface | unit | group | advertisement-timer |
delay)*>

<!ELEMENT vrrp-message (message)*>

<!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 63

# 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/9.3R1/junos-x509-certificate>. To review reference pages for the tags, see “Summary of X.509 Certificate Response Tags” on page 1591.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- 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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