

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>

Usage	<code><rpc></code> <code><abort-in-service-upgrade/></code> <code></rpc></code>
Description	Abort in-service software upgrade.

<clear-aaa-subscriber-table>

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

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

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

<clear-arp-table>

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

<clear-authentication-pending-table>

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

<clear-authentication-statistics>

Usage	<pre> <rpc> <clear-authentication-statistics/> </rpc> </pre>
Description	Clear general authentication statistics.

<clear-binding-all>

Usage	<pre> <rpc> <clear-binding-all/> </rpc> </pre>
Description	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>

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

<clear-dhcp-statistics-information>

Usage	<pre> <rpc> <clear-dhcp-statistics-information/> </rpc> </pre>
Description	Clear DHCP statistics.

<clear-dot1x-interface-session>

Usage	<pre> <rpc> <clear-dot1x-interface-session> <interface-name>interface-name</interface-name> </clear-dot1x-interface-session> </rpc> </pre>
Description	Clear 802.1X session on an interface.
Contents	<interface-name>—Name of interface.

<clear-dot1x-mac-session>

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

Description Clear 802.1X session on a MAC address.

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

<clear-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>

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

<clear-services-flow-collector-information>

Usage	<pre> <rpc> <clear-services-flow-collector-information/> </rpc> </pre>
Description	Clear services flow collector information.

<clear-services-flow-collector-statistics>

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

<clear-system-commit>

Usage	<pre> <rpc> <clear-system-commit/> </rpc> </pre>
Description	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>

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

<file-compare>

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

<file-copy>

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

<file-delete>

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

<file-get>

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

<file-list>

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

<file-put>

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

<file-rename>

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

<file-show>

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

<get-aaa-module-statistics>

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

<get-aaa-subscriber-statistics>

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

<get-aaa-subscriber-table>

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

<get-accounting-profile-information>

Usage	<pre><rpc> <get-accounting-profile-information> <profile>profile</profile> </get-accounting-profile-information> </rpc></pre>
Description	Show accounting profile information.
Contents	<profile>—Profile name.

<get-accounting-record-information>

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

<get-active-servers>

Usage	<pre> <rpc> <get-active-servers/> </rpc> </pre>
Description	Show configured servers.

<get-address-assignment-pool-table>

Usage	<pre> <rpc> <get-address-assignment-pool-table> <get-address-assignment-pool-table-specific>get-addr-assignmnt-pool-table-specific </get-address-assignment-pool-table-specific> <!-- mandatory --> <routing-instance>routing-instance</routing-instance> <logical-system>logical-system</logical-system> </get-address-assignment-pool-table> </rpc> </pre>
Description	Show pool information.
Contents	<p><get-address-assignment-pool-table-specific>—Show information for a specific pool.</p> <p><logical-system>—Name of logical system.</p> <p><routing-instance>—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>

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

<get-bgp-traffic-statistics-information>

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

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

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

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

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

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

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

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

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

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

<get-core-file-information>

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

Description Display the stack trace of core file.

Contents <brief>—View details of binary.

 <core-filename>—Name of core file.

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

<get-cos-adaptive-shaper-information>

Usage <rpc>
 <get-cos-adaptive-shaper-information>
 <adaptive-shaper-name>*adptve-shaper-nm*</adaptive-shaper-name>
 </get-cos-adaptive-shaper-information>
 </rpc>

Description Show trigger types and associated rate for adaptive shaper.

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

<get-cos-classifier-information>

- Usage** `<rpc>`
 <get-cos-classifier-information>
 `<classifier-name>classifier-name</classifier-name>`
 `<type>type-choice</type>`
 </get-cos-classifier-information>
`</rpc>`
- Description** Show mapping of code point to forwarding class/loss priority.
- Contents** `<classifier-name>`—Name of classifier.
- `<type>`—Type of classifier.
- `dscp`—Differentiated Services code point (DSCP).
 - `dscp-ipv6`—Differentiated Services code point (DSCP) for IPv6.
 - `exp`—MPLS experimental code point.
 - `ieee-802.1`—IEEE-802.1 code point.
 - `ieee-802.1ad`—IEEE-802.1ad (DEI) code point.
 - `inet-precedence`—IPv4 precedence code point.

<get-cos-classifier-table-information>

- Usage** `<rpc>`
 <get-cos-classifier-table-information/>
`</rpc>`
- Description** Show classifier information.

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

- Usage** `<rpc>`
 <get-cos-classifier-table-map-information/>
`</rpc>`
- Description** Show mapping of interfaces to classifiers.

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

Usage	<pre> <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> </pre>
Description	Show mapping of symbolic name to code point bit pattern.
Contents	<p><dscp>—Differentiated Services code point (DSCP).</p> <p><dscp-ipv6>—Differentiated Services code point (DSCP) for IPv6.</p> <p><exp>—MPLS experimental code point.</p> <p><ieee-802.1>—IEEE-802.1 code point.</p> <p><ieee-802.1ad>—IEEE-802.1ad (DEI) code point.</p> <p><inet-precedence>—IPv4 precedence code point.</p>

<get-cos-drop-profile-information>

Usage	<pre> <rpc> <get-cos-drop-profile-information> <profile-name>profile-name</profile-name> </get-cos-drop-profile-information> </rpc> </pre>
Description	Show interpolated data points of named drop profile.
Contents	<profile-name>—Name of drop profile.

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

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

- Usage** `<rpc>`
 <get-cos-rewrite-information>
 `<rewrite-rule-name>rewrite-rule-name</rewrite-rule-name>`
 `<type>type-choice</type>`
 </get-cos-rewrite-information>
`</rpc>`
- Description** Show mapping of forwarding class/loss priority to code point.
- Contents** `<rewrite-rule-name>`—Name of rewrite rule.
- `<type>`—Type of rewrite rule.
- `dscp`—Differentiated Services code point (DSCP).
 - `dscp-ipv6`—Differentiated Services code point (DSCP) for IPv6.
 - `exp`—MPLS experimental code point.
 - `frame-relay-de`—Frame relay discard eligible bit code point.
 - `ieee-802.1`—IEEE-802.1 code point.
 - `ieee-802.1ad`—IEEE-802.1ad (DEI) code point.
 - `inet-precedence`—IPv4 precedence code point.

<get-cos-rewrite-table-information>

- Usage** `<rpc>`
 <get-cos-rewrite-table-information/>
`</rpc>`
- Description** Show rewrite information.

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

- Usage** `<rpc>`
 <get-cos-rewrite-table-map-information/>
`</rpc>`
- Description** Show interface to rewrite rule mapping.

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

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

Description Show mapping of CoS objects to routing instance.

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

<get-cos-scheduler-map-information>

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

Description Show mapping of forwarding classes to schedulers.

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

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

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

Description Show scheduler map.

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

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

Description Show shaper.

<get-cos-table-information>

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

Description Show forwarding table information.

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

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

<get-cos-translation-table-information>

Usage	<pre> <rpc> <get-cos-translation-table-information/> </rpc> </pre>
Description	Show translation table information.

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

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

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

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

Description Show mapping of interfaces to translation table.

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

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

Description Show virtual channel group information.

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

<get-cos-virtual-channel-information>

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

Description Show virtual channel names.

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

<get-craft-information>

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

Description Show craft interface status.

<get-crl-information>

Usage	<pre> <rpc> <get-crl-information> <brief/> <detail/> <crl-name>crl-name</crl-name> </get-crl-information> </rpc> </pre>
Description	Show IPSec digital certificate revocation lists.
Contents	<p><brief>—Display brief output.</p> <p><crl-name>—Name of CRL.</p> <p><detail>—Display detailed output.</p>

<get-database-replication-statistics-information>

Usage	<pre> <rpc> <get-database-replication-statistics-information/> </rpc> </pre>
Description	Show database replication statistics.

<get-database-replication-summary-information>

Usage	<pre> <rpc> <get-database-replication-summary-information/> </rpc> </pre>
Description	Show database replication summary.

<get-destination-class-statistics>

Usage	<pre> <rpc> <get-destination-class-statistics> <class-name>class-name</class-name> <!-- mandatory --> <interface-name>interface-name</interface-name> </get-destination-class-statistics> </rpc> </pre>
Description	Show statistics for destination class.
Contents	<p><class-name>—Name of destination class.</p> <p><interface-name>—Name of logical interface.</p>

<get-dhcp-binding-information>

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

<get-dhcp-conflict-information>

Usage	<pre> <rpc> <get-dhcp-conflict-information/> </rpc> </pre>
Description	Show DHCP address conflict.

<get-dhcp-global-information>

Usage	<pre> <rpc> <get-dhcp-global-information/> </rpc> </pre>
Description	Show DHCP global scope information.

<get-dhcp-pool-information>

Usage	<pre> <rpc> <get-dhcp-pool-information> <detail/> <subnet-address>subnet-address</subnet-address> </get-dhcp-pool-information> </rpc> </pre>
Description	Show DHCP address pool information.
Contents	<p><detail>—Display detailed information.</p> <p><subnet-address>—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>

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

<get-dhcp-server-statistics-information>

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

<get-dhcp-statistics-information>

Usage	<pre> <rpc> <get-dhcp-statistics-information/> </rpc> </pre>
Description	Show DHCP statistics.

<get-directory-usage-information>

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

<get-dot1x-authentication-failed-users>

Usage	<pre><rpc> <get-dot1x-authentication-failed-users/> </rpc></pre>
Description	List users who have failed 802.1X authentication.

<get-dot1x-interface-information>

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

<get-dot1x-interface-mac-addresses>

Usage	<pre> <rpc> <get-dot1x-interface-mac-addresses> <interface-name>interface-name</interface-name> </get-dot1x-interface-mac-addresses> </rpc> </pre>
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	<pre> <rpc> <get-dot1x-static-mac-addresses/> </rpc> </pre>
Description	Show 802.1X static MAC addresses.

<get-dvmrp-interfaces-information>

Usage	<pre> <rpc> <get-dvmrp-interfaces-information> <logical-system>logical-system</logical-system> </get-dvmrp-interfaces-information> </rpc> </pre>
Description	Show DVMRP interfaces.
Contents	<logical-system>—Name of logical system, or 'all'.

<get-dvmrp-neighbors-information>

Usage	<pre> <rpc> <get-dvmrp-neighbors-information> <logical-system>logical-system</logical-system> </get-dvmrp-neighbors-information> </rpc> </pre>
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-esis-interface-information>

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

Description Show ES-IS interface information.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <extensive>—Display extensive output.
 <instance>—Name of ES-IS instance.
 <interface-name>—Name of interface.
 <logical-system>—Name of logical system, or 'all'.

<get-esis-statistics-information>

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

Description Show ES-IS performance statistics.

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

<get-event-summary>

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

Description Show syslog event.

Contents <daemon-name>—Daemon name filter.

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

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

<event-id>—Event Id filter.

<new-search>—It is a new search.

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

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

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

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

<syslogfile>—Syslog file name filter.

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

<get-fabric-queue-information>

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

<get-feb-brief-information>

Usage	<pre> <rpc> <get-feb-brief-information/> </rpc> </pre>
Description	Show Forwarding Engine Board status.

<get-feb-information>

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

<get-feb-redundancy-error-information>

Usage	<pre> <rpc> <get-feb-redundancy-error-information/> </rpc> </pre>
Description	Show error information.

<get-feb-redundancy-group-information>

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

Description Show FEB redundancy group information.

Contents <errors>—Include error information.

 <group>—Name of FEB redundancy group.

<get-feb-redundancy-information>

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

Description Show Forwarding Engine Board redundancy information.

<get-fips-pic-status-information>

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

Description Show FIPS PIC authorization status.

<get-firewall-counter-information>

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

Description Counter name.

Contents <countername>—Counter name.

 <filter>—Filter name.

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

<get-firewall-filter-information>

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

Description Filter name.

Contents <counter>—Counter name.
 <filtername>—Filter name.
 <logical-system>—Name of logical system, or 'all'.

<get-firewall-information>

Usage <rpc>
 <get-firewall-information>
 <logical-system>*logical-system*</logical-system>
 </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>

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

<get-ggsn-imsi-user-information>

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

<get-ggsn-interface-information>

Usage	<pre> <rpc> <get-ggsn-interface-information/> </rpc> </pre>
Description	Show GGSN operational status information.

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

Usage	<pre> <rpc> <get-ggsn-l2tp-tunnel-statistics-information> <lac-address><i>lac-address</i></lac-address> </get-ggsn-l2tp-tunnel-statistics-information> </rpc> </pre>
Description	Show L2TP tunnel statistics.
Contents	<lac-address>—IP address of LAC.

<get-ggsn-msisdn-trace>

Usage	<pre><rpc> <get-ggsn-msisdn-trace> <msisdn-identifier>msisdn-identifier</msisdn-identifier> <!-- mandatory --> </get-ggsn-msisdn-trace> </rpc></pre>
Description	Show trace information for Mobile Station Integrated Services Digital Network.
Contents	<msisdn-identifier>—Identifier for MSISDN.

<get-ggsn-radius-statistics-information>

Usage	<pre><rpc> <get-ggsn-radius-statistics-information/> </rpc></pre>
Description	Show RADIUS statistics.

<get-ggsn-sgsn-statistics-information>

Usage	<pre><rpc> <get-ggsn-sgsn-statistics-information> <address>address</address> </get-ggsn-sgsn-statistics-information> </rpc></pre>
Description	Show statistics for client Serving GPRS Support Node.
Contents	<address>—IP address and optional prefix length of SGSN.

<get-ggsn-statistics>

Usage	<pre><rpc> <get-ggsn-statistics/> </rpc></pre>
Description	Show GGSN statistics.

<get-ggsn-trace>

Usage	<pre><rpc> <get-ggsn-trace/> </rpc></pre>
Description	Show all trace information.

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

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

Description Show header redirect set statistics.

Contents <detail>—Display detailed statistics.

<get-health-monitor-alarm-information>

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

Description Show health-monitor alarms.

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

<get-health-monitor-information>

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

Description Show health-monitoring information.

<get-health-monitor-log-information>

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

Description Show health-monitoring logs.

<get-helper-statistics-information>

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

Description Show helper statistics.

<get-history-results>

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

Description Show history results.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <owner>—Name of owner.
 <since>—Show history since YYYY-MM-DD.HH:MM:SS.
 <test>—Name of test.

<get-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>

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

<get-igmp-snooping-statistics-information>

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

<get-igmp-statistics-information>

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

<get-ike-security-associations-information>

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

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

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

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

<get-isis-database-information>

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

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

<get-isis-route-information>

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

<get-isis-spf-log-information>

Usage <rpc>
 <get-isis-spf-log-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <level>*level*</level>
 <topology>*topology-choice*</topology>
 </get-isis-spf-log-information>
 </rpc>

Description Show log of SPF runs.

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

 <level>—Number of IS-IS level.

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

 <topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-spf-results-brief-information>

Usage <rpc>
 <get-isis-spf-results-brief-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <level>*level*</level>
 <topology>*topology-choice*</topology>
 </get-isis-spf-results-brief-information>
 </rpc>

Description Show brief summary of SPF results.

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

<level>—Number of level.

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

<topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-spf-results-information>

Usage <rpc>
 <get-isis-spf-results-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <level>*level*</level>
 <topology>*topology-choice*</topology>
 </get-isis-spf-results-information>
 </rpc>

Description Show results from SPF runs.

Contents <instance>—IS-IS instance.

 <level>—Number of IS-IS level.

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

 <topology>—Name of topology.

- ipv4-multicast—IPv4 multicast topology.
- ipv6-multicast—IPv6 multicast topology.
- ipv6-unicast—IPv6 unicast topology.
- unicast—Unicast topology.

<get-isis-statistics-information>

Usage <rpc>
 <get-isis-statistics-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 </get-isis-statistics-information>
 </rpc>

Description Show IS-IS performance statistics.

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

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

<get-l2ckt-connection-information>

Usage <rpc>
 <get-l2ckt-connection-information>
 <logical-system>*logical-system*</logical-system>
 <neighbor>*neighbor*</neighbor>
 <interface>*interface*</interface>
 <down/>
 <up/>
 <up-down/>
 <brief/>
 <extensive/>
 <history/>
 <status/>
 <summary/>
 </get-l2ckt-connection-information>
 </rpc>

Description Show the Layer 2 circuit connections.

Contents <brief>—Display one-line version of output.
 <down>—Display nonoperational connections.
 <extensive>—Display connection status and history.
 <history>—Display connection history.
 <interface>—Name of interface.
 <logical-system>—Name of logical system, or 'all'.
 <neighbor>—IP address of neighbor.
 <status>—Display connection and interface status (default).
 <summary>—Display summary output.
 <up>—Display operational connections.
 <up-down>—Display both operational and nonoperational connections (default).

<get-l2tp-multilink-information>

Usage <rpc>
 <get-l2tp-multilink-information>
 <extensive/>
 <brief/>
 <detail/>
 <statistics/>
 <bundle-id>*bundle-id*</bundle-id>
 </get-l2tp-multilink-information>
 </rpc>

Description Show active L2TP multilink list.

Contents <brief>—Display brief output (default).
 <bundle-id>—Filter by multilink bundle ID.
 <detail>—Display detailed output.
 <extensive>—Display extensive output.
 <statistics>—Display statistics.

<get-l2tp-session-information>

Usage <rpc>
 <get-l2tp-session-information>
 <extensive/>
 <brief/>
 <detail/>
 <statistics/>
 <tunnel-group>tunnel-group</tunnel-group>
 <local-tunnel-id>local-tunnel-id</local-tunnel-id>
 <interface>interface</interface>
 <local-gateway>local-gateway</local-gateway>
 <local-gateway-name>local-gateway-name</local-gateway-name>
 <peer-gateway>peer-gateway</peer-gateway>
 <peer-gateway-name>peer-gateway-name</peer-gateway-name>
 <local-session-id>local-session-id</local-session-id>
 <user>user</user>
 </get-l2tp-session-information>
 </rpc>

Description Show active L2TP session list.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <extensive>—Display extensive output.
 <interface>—Interface name to use as filter.
 <local-gateway>—Local gateway address to use as filter.
 <local-gateway-name>—Local gateway name to use as filter.
 <local-session-id>—Local session ID to use as filter.
 <local-tunnel-id>—Local tunnel ID to use as filter.
 <peer-gateway>—Peer gateway address to use as filter.
 <peer-gateway-name>—Peer gateway name to use as filter.
 <statistics>—Display statistics.
 <tunnel-group>—Tunnel group to use as filter.
 <user>—Username to use as filter.

<get-l2tp-summary-information>

- Usage** <rpc>
 <get-l2tp-summary-information>
 <interface>*interface*</interface>
 </get-l2tp-summary-information>
 </rpc>
- Description** Show L2TP summary information.
- Contents** <interface>—Name of adaptive services interface.

<get-l2tp-tunnel-information>

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

<get-l2vpn-connection-information>

Usage <rpc>
 <get-l2vpn-connection-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <local-site>*local-site*</local-site>
 <remote-site>*remote-site*</remote-site>
 <down/>
 <up/>
 <up-down/>
 <brief/>
 <extensive/>
 <history/>
 <status/>
 <summary/>
 </get-l2vpn-connection-information>
 </rpc>

Description Show Layer 2 VPN connections information.

Contents <brief>—Display one-line version of output.
 <down>—Display nonoperational connections.
 <extensive>—Display connection status and history.
 <history>—Display connection history.
 <instance>—Name of Layer 2 VPN instance.
 <local-site>—Name or ID of Layer 2 VPN local site.
 <logical-system>—Name of logical system, or 'all'.
 <remote-site>—ID of Layer 2 VPN remote site.
 <status>—Display connection and circuit status (default).
 <summary>—Display summary output.
 <up>—Display operational connections.
 <up-down>—Display both non- and operational connections (default).

<get-lacp-interface-information>

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

Description Show LACP interfaces information.

Contents <interface-name>—Name of interface.

<get-ldp-database-information>

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

Description Show LDP label database.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <extensive>—Display extensive output.
 <inet>—Display IPv4 bindings.
 <instance>—Name of LDP routing instance.
 <l2circuit>—Display Layer 2 circuit bindings.
 <logical-system>—Name of logical system, or 'all'.
 <session>—IP address of session destination.

<get-ldp-fec-filters-information>

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

<get-ldp-interface-information>

Usage	<pre> <rpc> <get-ldp-interface-information> <logical-system>logical-system</logical-system> <brief/> <detail/> <extensive/> <instance>instance</instance> <interface-name>interface-name</interface-name> </get-ldp-interface-information> </rpc> </pre>
Description	Show LDP interface status.
Contents	<p><brief>—Display brief output (default).</p> <p><detail>—Display detailed output.</p> <p><extensive>—Display extensive output.</p> <p><instance>—Name of LDP routing instance.</p> <p><interface-name>—Name of interface.</p> <p><logical-system>—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>

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

<get-mac-database>

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

<get-mip-binding-information>

Usage	<pre> <rpc> <get-mip-binding-information/> </rpc> </pre>
Description	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	<pre> <rpc> <get-msdp-statistics-information> <logical-system>logical-system</logical-system> <instance>instance</instance> <peer>peer</peer> </get-msdp-statistics-information> </rpc> </pre>
Description	Show MSDP statistics.
Contents	<p><instance>—Name of instance.</p> <p><logical-system>—Name of logical system, or 'all'.</p> <p><peer>—IPv4 address and optional prefix length of MSDP peers.</p>

<get-mspinfo-connections>

Usage	<pre> <rpc> <get-mspinfo-connections> <inet/> <inet6/> <extensive/> <show-routing-instances/> <interface>interface</interface> </get-mspinfo-connections> </rpc> </pre>
Description	Show connection activity on the extension provider PIC.
Contents	<p><extensive>—Display extensive output.</p> <p><inet>—Display IPv4 connections.</p> <p><inet6>—Display IPv6 connections.</p> <p><interface>—Name of extension provider interface.</p> <p><show-routing-instances>—Display routing instances.</p>

<get-mspinfo-packages>

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

<get-mspinfo-processes>

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

<get-mspinfo-processes-brief>

Usage	<pre> <rpc> <get-mspinfo-processes-brief> <interface>interface</interface> </get-mspinfo-processes-brief> </rpc> </pre>
Description	Display brief output.
Contents	<interface>—Name of extension provider interface.

<get-mspinfo-processes-extensive>

Usage <rpc>
 <get-mspinfo-processes-extensive>
 <interface>*interface*</interface>
 </get-mspinfo-processes-extensive>
 </rpc>

Description Display brief output.

Contents <interface>—Name of extension provider interface.

<get-mspinfo-uptime>

Usage <rpc>
 <get-mspinfo-uptime>
 <interface>*interface*</interface>
 </get-mspinfo-uptime>
 </rpc>

Description Show uptime on the extension provider PIC.

Contents <interface>—Name of extension provider interface.

<get-mspinfo-virtual-memory>

Usage <rpc>
 <get-mspinfo-virtual-memory>
 <interface>*interface*</interface>
 </get-mspinfo-virtual-memory>
 </rpc>

Description Show kernel dynamic memory usage on the extension provider PIC.

Contents <interface>—Name of extension provider interface.

<get-multicast-backup-pe-address-information>

Usage <rpc>
 <get-multicast-backup-pe-address-information>
 <logical-system>*logical-system*</logical-system>
 <pe_address>*pe_address*</pe_address> <!-- mandatory -->
 </get-multicast-backup-pe-address-information>
 </rpc>

Description Show groups a PE address is associated with.

Contents <logical-system>—Name of logical system, or 'all'.
 <pe_address>—IP address of the PE.

<get-multicast-backup-pe-groups-information>

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

<get-multicast-flow-maps-information>

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

<get-multicast-interface-information>

Usage	<pre> <rpc> <get-multicast-interface-information> <logical-system>logical-system</logical-system> </get-multicast-interface-information> </rpc> </pre>
Description	Show configured interfaces.
Contents	<logical-system>—Name of logical system, or 'all'.

<get-multicast-next-hops-information>

Usage <rpc>
 <get-multicast-next-hops-information>
 <logical-system>*logical-system*</logical-system>
 <brief/>
 <detail/>
 <identifier>*identifier*</identifier>
 <inet/>
 <inet6/>
 </get-multicast-next-hops-information>
 </rpc>

Description Show the multicast next-hop table.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <identifier>—ID of next hop.
 <inet>—Display IPv4 information.
 <inet6>—Display IPv6 information.
 <logical-system>—Name of logical system, or 'all'.

<get-multicast-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>

Usage <rpc>
 <get-ospf3-interface-information>
 <logical-system>*logical-system*</logical-system>
 <brief/>
 <detail/>
 <extensive/>
 <interface-name>*interface-name*</interface-name>
 <area>*area*</area>
 <instance>*instance*</instance>
 <realm>*realm-choice*</realm>
 </get-ospf3-interface-information>
 </rpc>

Description Show OSPFv3 interface status.

Contents <area>—OSPF area ID.

<brief>—Display brief output (default).

<detail>—Display detailed output.

<extensive>—Display extensive output.

<instance>—Name of OSPFv3 instance.

<interface-name>—Name of logical interface.

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

<realm>—Name of realm.

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

<get-ospf3-io-statistics-information>

Usage <rpc>
 <get-ospf3-io-statistics-information>
 <logical-system>*logical-system*</logical-system>
 </get-ospf3-io-statistics-information>
 </rpc>

Description Show OSPFv3 I/O statistics.

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

<get-ospf3-log-information>

Usage <rpc>
 <get-ospf3-log-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <realm>*realm-choice*</realm>
 </get-ospf3-log-information>
 </rpc>

Description Show OSPFv3 SPF log.

Contents <instance>—Name of OSPFv3 instance.
 <logical-system>—Name of logical system, or 'all'.
 <realm>—Name of realm.

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

<get-ospf3-neighbor-information>

Usage <rpc>
 <get-ospf3-neighbor-information>
 <logical-system>*logical-system*</logical-system>
 <brief/>
 <detail/>
 <extensive/>
 <interface>*interface*</interface>
 <area>*area*</area>
 <neighbor>*neighbor*</neighbor>
 <instance>*instance*</instance>
 <realm>*realm-choice*</realm>
 </get-ospf3-neighbor-information>
 </rpc>

Description Show OSPFv3 neighbor status.

Contents <area>—OSPF area ID.

 <brief>—Display brief output (default).

 <detail>—Display detailed output.

 <extensive>—Display extensive output.

 <instance>—Name of OSPFv3 instance.

 <interface>—Name of logical interface.

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

 <neighbor>—IP address or ID of neighbor.

 <realm>—Name of realm.

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

<get-ospf3-overview-information>

Usage <rpc>
 <get-ospf3-overview-information>
 <logical-system>*logical-system*</logical-system>
 <brief/>
 <extensive/>
 <instance>*instance*</instance>
 <realm>*realm-choice*</realm>
 </get-ospf3-overview-information>
 </rpc>

Description Show overview of OSPFv3 information.

Contents <brief>—Display brief output (default).
 <extensive>—Display extensive output.
 <instance>—Name of OSPFv3 instance.
 <logical-system>—Name of logical system, or 'all'.
 <realm>—Name of realm.

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

<get-ospf3-route-information>

Usage <rpc>
 <get-ospf3-route-information>
 <logical-system>*logical-system*</logical-system>
 <detail/>
 <intra/>
 <inter/>
 <transit/>
 <abr/>
 <asbr/>
 <extern/>
 <instance>*instance*</instance>
 <realm>*realm-choice*</realm>
 </get-ospf3-route-information>
 </rpc>

Description Show the OSPFv3 routing table.

Contents <abr>—Display OSPFv3 routes to area border routers.
 <asbr>—Display OSPFv3 routes to AS border routers.
 <detail>—Show detailed output.
 <extern>—Display external OSPFv3 routes.
 <instance>—Name of OSPFv3 instance.
 <inter>—Display interarea OSPFv3 routes.
 <intra>—Display intraarea OSPFv3 routes.
 <logical-system>—Name of logical system, or 'all'.
 <realm>—Name of realm.

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

<transit>—Display OSPFv3 routes to pseudonodes.

<get-ospf3-statistics-information>

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

<get-package-backup-information>

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

<get-packet-distribution-information>

Usage	<pre> <rpc> <get-packet-distribution-information> <packet-size-distribution-information>packet-size-distribution-information </packet-size-distribution-information> </get-packet-distribution-information> </rpc> </pre>
Description	Show packet size distribution.
Contents	<packet-size-distribution-information>—Name of service, wildcard, or 'all'.

<get-passive-monitoring-error-information>

Usage `<rpc>`
 <get-passive-monitoring-error-information>
 `<interface-name>interface-name</interface-name>` `<!-- mandatory -->`
 </get-passive-monitoring-error-information>
`</rpc>`

Description Show error statistics.

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

<get-passive-monitoring-flow-information>

Usage `<rpc>`
 <get-passive-monitoring-flow-information>
 `<interface-name>interface-name</interface-name>` `<!-- mandatory -->`
 </get-passive-monitoring-flow-information>
`</rpc>`

Description Show flow statistics.

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

<get-passive-monitoring-information>

Usage `<rpc>`
 <get-passive-monitoring-information/>
`</rpc>`

Description Show information about passive monitoring.

<get-passive-monitoring-memory-information>

Usage `<rpc>`
 <get-passive-monitoring-memory-information>
 `<interface-name>interface-name</interface-name>` `<!-- mandatory -->`
 </get-passive-monitoring-memory-information>
`</rpc>`

Description Show memory utilization.

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

<get-passive-monitoring-status-information>

Usage <rpc>
 <get-passive-monitoring-status-information>
 <interface-name>*interface-name*</interface-name> <!-- mandatory -->
 </get-passive-monitoring-status-information>
 </rpc>

Description Show status information.

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

<get-passive-monitoring-usage-information>

Usage <rpc>
 <get-passive-monitoring-usage-information>
 <interface-name>*interface-name*</interface-name> <!-- mandatory -->
 </get-passive-monitoring-usage-information>
 </rpc>

Description Show CPU utilization.

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

<get-pdp-diagnostics-per-apn>

Usage <rpc>
 <get-pdp-diagnostics-per-apn>
 <apn>*apn*</apn> <!-- mandatory -->
 </get-pdp-diagnostics-per-apn>
 </rpc>

Description Show PDP context diagnostics information.

Contents <apn>—APN for which to show PDP Contexts.

<get-pfe-information>

Usage <rpc>
 <get-pfe-information/>
 </rpc>

Description Show list of Packet Forwarding Engine components.

<get-pfe-statistics>

Usage <rpc>
 <get-pfe-statistics>
 <sfm>sfm</sfm>
 <feb>feb</feb>
 <lcc>lcc</lcc>
 <fpc>fpc</fpc>
 </get-pfe-statistics>
 </rpc>

Description Show Packet Forwarding Engine traffic statistics.

Contents <feb>—Slot number of FEB for which to show traffic statistics.
 <fpc>—Slot number of FPC for which to show traffic statistics.
 <lcc>—Slot number of LCC that houses FPC.
 <sfm>—Slot number of SFM for which to show traffic statistics.

<get-pgcpd-active-configuration>

Usage <rpc>
 <get-pgcpd-active-configuration/>
 </rpc>

Description Show pgcpd active-configuration.

<get-pgm-nak>

Usage <rpc>
 <get-pgm-nak/>
 </rpc>

Description Show PGM negative acknowledgments.

<get-pgm-source-path-messages>

Usage <rpc>
 <get-pgm-source-path-messages/>
 </rpc>

Description Show PGM source path messages.

<get-pgm-statistics>

Usage <rpc>
 <get-pgm-statistics/>
 </rpc>

Description Show PGM packet statistics.

<get-pic-detail>

Usage <rpc>
 <get-pic-detail>
 <fpc-slot>*fpc-slot*</fpc-slot> <!-- mandatory -->
 <pic-slot>*pic-slot*</pic-slot> <!-- mandatory -->
 </get-pic-detail>
 </rpc>

Description Show Physical Interface Card state, type, and uptime.

Contents <fpc-slot>—Slot number of FPC that houses PIC.
 <pic-slot>—PIC slot number.

<get-pic-information>

Usage <rpc>
 <get-pic-information>
 <slot>*slot*</slot>
 </get-pic-information>
 </rpc>

Description Show Physical Interface Cards installed in FPC.

Contents <slot>—FPC slot number.

<get-pim-bootstrap-information>

Usage <rpc>
 <get-pim-bootstrap-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 </get-pim-bootstrap-information>
 </rpc>

Description Show PIM bootstrap routers.

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

<get-pim-interfaces-information>

Usage <rpc>
 <get-pim-interfaces-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <interface-name>*interface-name*</interface-name>
 <inet/>
 <inet6/>
 </get-pim-interfaces-information>
 </rpc>

Description Show PIM interfaces.

Contents <inet>—Display IPv4 interfaces.
 <inet6>—Display IPv6 interfaces.
 <instance>—Name of instance.
 <interface-name>—Name of interface.
 <logical-system>—Name of logical system, or 'all'.

<get-pim-join-information>

Usage <rpc>
 <get-pim-join-information>
 <logical-system>*logical-system*</logical-system>
 <instance>*instance*</instance>
 <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>

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

<get-ppp-summary-information>

Usage	<pre> <rpc> <get-ppp-summary-information/> </rpc> </pre>
Description	Show PPP summary information.

<get-pppoe-interface-information>

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

<get-pppoe-statistics-information>

Usage	<pre> <rpc> <get-pppoe-statistics-information/> </rpc> </pre>
Description	Show sum of statistics of all interfaces.

<get-pppoe-version>

Usage <rpc>
 <get-pppoe-version/>
 </rpc>

Description Show version.

<get-probe-results>

Usage <rpc>
 <get-probe-results>
 <owner>owner</owner>
 <test>test</test>
 </get-probe-results>
 </rpc>

Description Show probe results.

Contents <owner>—Name of owner.
 <test>—Name of test.

<get-process-health-information>

Usage <rpc>
 <get-process-health-information>
 <process-name>process-name</process-name>
 <pid>pid</pid>
 </get-process-health-information>
 </rpc>

Description Show process health information.

Contents <pid>—Process identifier.
 <process-name>—Process name.

<get-psd-information>

Usage <rpc>
 <get-psd-information/>
 </rpc>

Description Show Protected System Domain (PSD) status.

<get-radius-profile-access-test-result>

Usage <rpc>
 <get-radius-profile-access-test-result>
 <profile-name>profile-name</profile-name> <!-- mandatory -->
 <user>user</user> <!-- mandatory -->
 <password>password</password> <!-- mandatory -->
 <get-radius-profile-access-test-detail-result/>
 </get-radius-profile-access-test-result>
 </rpc>

Description Test user access to an access profile.

Contents <get-radius-profile-access-test-detail-result>—Show radius attributes returned by the server.

<password>—Password for the user.

<profile-name>—Access profile name.

<user>—User name to be authenticated to the RADIUS server.

<get-radius-server-access-test-result>

Usage <rpc>
 <get-radius-server-access-test-result>
 <address>address</address> <!-- mandatory -->
 <authentication-port>authentication-port</authentication-port>
 <secret>secret</secret> <!-- mandatory -->
 <user>user</user> <!-- mandatory -->
 <password>password</password> <!-- mandatory -->
 <timeout>seconds</timeout>
 <retry>retry</retry>
 <source-address>source-address</source-address>
 </get-radius-server-access-test-result>
 </rpc>

Description Test user access to a radius server.

Contents <address>—RADIUS server address.

<authentication-port>—RADIUS server authentication port number.

<password>—Password for the user.

<retry>—Retry attempts.

<secret>—Shared secret with the RADIUS server.

<source-address>—Use specified address as source address.

<timeout>—Request timeout period.

<user>—User name to be authenticated to the RADIUS server.

<get-rescue-information>

- Usage** `<rpc>`
 <get-rescue-information>
 `<format>format-choice</format>`
 </get-rescue-information>
`</rpc>`
- Description** Show rescue configuration.
- Contents** `<format>`—Output format of configuration (XML or text).
- `text`—Output text configuration.
 - `xml`—Output XML configuration.

<get-rip-general-statistics-information>

- Usage** `<rpc>`
 <get-rip-general-statistics-information>
 `<logical-system>logical-system</logical-system>`
 </get-rip-general-statistics-information>
`</rpc>`
- Description** Show RIP general statistics.
- Contents** `<logical-system>`—Name of logical system, or 'all'.

<get-rip-neighbor-information>

- Usage** `<rpc>`
 <get-rip-neighbor-information>
 `<logical-system>logical-system</logical-system>`
 `<neighbor-name>neighbor-name</neighbor-name>`
 `<instance>instance-choice</instance>`
 </get-rip-neighbor-information>
`</rpc>`
- Description** Show RIP interfaces.
- Contents** `<instance>`—Name of RIP instance.
- `all`—Show all instances.
 - `instance-name`—Name of RIP instance.
- `<logical-system>`—Name of logical system, or 'all'.
- `<neighbor-name>`—Name of RIP neighbor.

<get-rip-statistics-information>

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

<get-rmon-alarm-information>

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

<get-rmon-event-information>

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

<get-rmon-history-information>

- Usage** <rpc>
 <get-rmon-history-information>
 <index>*index*</index>
 <sample-index>*sample-index*</sample-index>
 </get-rmon-history-information>
 </rpc>
- Description** Show RMON history.
- Contents** <index>—No documentation is available yet.
 <sample-index>—No documentation is available yet.

<get-rmon-information>

- Usage** <rpc>
 <get-rmon-information/>
 </rpc>
- Description** Show remote monitoring information.

<get-rmon-log-information>

- Usage** <rpc>
 <get-rmon-log-information/>
 </rpc>
- Description** Show rmon monitoring logs.

<get-rollback-information>

Usage <rpc>
 <get-rollback-information>
 <rollback>rollback</rollback> <!-- mandatory -->
 <compare>compare</compare>
 <format>format-choice</format>
 </get-rollback-information>
 </rpc>

Description Show rolled back configuration.

Contents <compare>—Rollback number to compare.
 <format>—Output format of configuration (XML or text).
 ■ text—Output text configuration.
 ■ xml—Output XML configuration.
 <rollback>—Rollback number to display.

<get-route-engine-information>

Usage <rpc>
 <get-route-engine-information>
 <slot>slot</slot>
 </get-route-engine-information>
 </rpc>

Description Show Routing Engine status.

Contents <slot>—Routing Engine slot number.

<get-route-information>

Usage <rpc>
<get-route-information>
 <logical-system>*logical-system*</logical-system>
 <destination>*destination*</destination>
 <all/>
 <terse/>
 <brief/>
 <detail/>
 <extensive/>
 <best/>
 <exact/>
 <range/>
 <table>*table*</table>
 <label>*label*</label>
 <ccc>*ccc*</ccc>
 <inactive-prefix/>
 <inactive-path/>
 <active-path/>
 <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>

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

<get-scb-information>

Usage	<pre> <rpc> <get-scb-information/> </rpc> </pre>
Description	Show System Control Board status.

<get-security-associations-information>

Usage	<pre> <rpc> <get-security-associations-information> <brief/> <detail/> <sa-name>sa-name</sa-name> </get-security-associations-information> </rpc> </pre>
Description	Show IPSec security association information.
Contents	<p><brief>—Display brief output.</p> <p><detail>—Display detailed output.</p> <p><sa-name>—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>

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

<get-service-accounting-errors-information>

Usage	<pre> <rpc> <get-service-accounting-errors-information> <error-information>error-information</error-information> </get-service-accounting-errors-information> </rpc> </pre>
Description	Show error statistics.
Contents	<error-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-flow-detail>

Usage <rpc>
 <get-service-accounting-flow-detail>
 <flow-detail-information>flow-detail-information</flow-detail-information>
 <limit>limit</limit>
 <order>order-choice</order>
 <extensive/>
 <detail/>
 <terse/>
 <source-prefix>source-prefix</source-prefix>
 <destination-prefix>destination-prefix</destination-prefix>
 <source-port>source-port</source-port>
 <destination-port>destination-port</destination-port>
 <input-snmp-interface-index>input-snmp-interface-index
 </input-snmp-interface-index>
 <output-snmp-interface-index>output-snmp-interface-index
 </output-snmp-interface-index>
 <source-as>source-as</source-as>
 <destination-as>destination-as</destination-as>
 <tos>tos</tos>
 <proto>proto</proto>
 </get-service-accounting-flow-detail>
 </rpc>

Description Show flow detail.

Contents <destination-as>—Filter term destination AS.

<destination-port>—Filter term destination port.

<destination-prefix>—Filter term destination prefix.

<detail>—Display detailed output.

<extensive>—Display extensive output.

<flow-detail-information>—Name of service, wildcard, or 'all'.

<input-snmp-interface-index>—Filter term input SNMP interface index.

<limit>—Maximum number of flows to display.

<order>—Order for displaying flows.

- bytes—Display largest number of bytes first.
- packets—Display largest number of packets first.

<output-snmp-interface-index>—Filter term output SNMP interface index.

<proto>—Filter term protocol.

<source-as>—Filter term source AS.

<source-port>—Filter term source port.

<source-prefix>—Filter term source prefix.

<terse>—Display terse output (default).

<tos>—Filter term ToS.

<get-service-accounting-flow-information>

Usage <rpc>
 <get-service-accounting-flow-information>
 <flow-information>*flow-information*</flow-information>
 </get-service-accounting-flow-information>
 </rpc>

Description Show flow information.

Contents <flow-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-information>

Usage <rpc>
 <get-service-accounting-information/>
 </rpc>

Description Show sampled accounting service.

<get-service-accounting-memory-information>

Usage <rpc>
 <get-service-accounting-memory-information>
 <memory-information>*memory-information*</memory-information>
 </get-service-accounting-memory-information>
 </rpc>

Description Show memory information.

Contents <memory-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-status-information>

- Usage** <rpc>
 <get-service-accounting-status-information>
 <status-information>*status-information*</status-information>
 </get-service-accounting-status-information>
 </rpc>
- Description** Show service accounting parameters.
- Contents** <status-information>—Name of service, wildcard, or 'all'.

<get-service-accounting-usage-information>

- Usage** <rpc>
 <get-service-accounting-usage-information>
 <usage-information>*usage-information*</usage-information>
 </get-service-accounting-usage-information>
 </rpc>
- Description** Show CPU usage.
- Contents** <usage-information>—Name of service, wildcard, or 'all'.

<get-service-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>

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

<get-service-pgcp-terminations>

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

<get-service-set-cpu-statistics>

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

<get-service-set-memory-statistics>

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

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

Usage	<pre> <rpc> <get-service-set-packet-drop-statistics> <interface>interface</interface> </get-service-set-packet-drop-statistics> </rpc> </pre>
Description	Show service set packet drop statistics.
Contents	<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	<pre> <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> </pre>
Description	Show statistics.
Contents	<p><brief>—Display brief output (default).</p> <p><detail>—Display detailed output.</p> <p><extensive>—Display extensive output.</p> <p><interface>—Name of adaptive services interface.</p> <p><service-set>—Name of service set.</p> <p><summary>—Display summary output.</p>

<get-services-dynamic-flow-capture-content-destination-information>

Usage	<pre> <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> </pre>
Description	Show DFC content destination information.
Contents	<p><capture-group>—Capture group name.</p> <p><destination-identifier>—Content destination identifier.</p> <p><terse>—Display terse output (default).</p>

<get-services-dynamic-flow-capture-control-source-information>

Usage <rpc>
 <get-services-dynamic-flow-capture-control-source-information>
 <detail/>
 <terse/>
 <capture-group>capture-group</capture-group> <!-- mandatory -->
 <source-identifier>source-identifier</source-identifier> <!-- mandatory -->
 </get-services-dynamic-flow-capture-control-source-information>
 </rpc>

Description Show DFC control source information.

Contents <capture-group>—Capture group name.
 <detail>—Display detailed output.
 <source-identifier>—Control source identifier.
 <terse>—Display terse output (default).

<get-services-flow-collector-file-information>

Usage <rpc>
 <get-services-flow-collector-file-information>
 <interface>interface-choice</interface> <!-- mandatory -->
 <extensive/>
 <detail/>
 <terse/>
 </get-services-flow-collector-file-information>
 </rpc>

Description Show file status information.

Contents <detail>—Display detailed output.
 <extensive>—Display extensive output.
 <interface>—Interface name.
 ■ all—All configured Collector PICs.
 ■ interface—Physical interface.
 <terse>—Display terse output (default).

<get-services-flow-collector-information>

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

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

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

<get-services-ipsec-statistics-information>

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

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

Usage	<pre> <rpc> <get-services-l2tp-radius-accounting-servers-information/> </rpc> </pre>
Description	Show RADIUS accounting servers information.

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

Usage	<pre> <rpc> <get-services-l2tp-radius-accounting-statistics-information/> </rpc> </pre>
Description	Show RADIUS accounting statistics information.

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

Usage	<pre> <rpc> <get-services-l2tp-radius-authentication-accounting-servers-information/> </rpc> </pre>
Description	Show RADIUS authentication and accounting servers information.

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

Usage <rpc>
 <get-services-l2tp-radius-authentication-accounting-statistics-information/>
 </rpc>

Description Show RADIUS authentication and accounting statistics information.

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

Usage <rpc>
 <get-services-l2tp-radius-authentication-servers-information/>
 </rpc>

Description Show RADIUS authentication servers information.

<get-services-l2tp-radius-authentication-statistics-information>

Usage <rpc>
 <get-services-l2tp-radius-authentication-statistics-information/>
 </rpc>

Description Show RADIUS authentication statistics information.

<get-services-pgcpd-root-termination>

Usage <rpc>
 <get-services-pgcpd-root-termination>
 <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>

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

<get-sfm-information>

Usage	<pre> <rpc> <get-sfm-information/> </rpc> </pre>
Description	Show Switching and Forwarding Module status.

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

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

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

<get-spmb-information>

Usage	<pre> <rpc> <get-spmb-information/> </rpc> </pre>
Description	Show Switch Processor Mezzanine Board status.

<get-spmb-sib-information>

Usage	<pre> <rpc> <get-spmb-sib-information/> </rpc> </pre>
Description	Show Switch Interface Board status.

<get-ssb-information>

Usage	<pre> <rpc> <get-ssb-information> <slot>slot</slot> </get-ssb-information> </rpc> </pre>
Description	Show System and Switch Board status.
Contents	<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>

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

<get-system-alarm-information>

Usage	<pre><rpc> <get-system-alarm-information/> </rpc></pre>
Description	Show system alarm status.

<get-system-archival>

Usage	<pre><rpc> <get-system-archival/> </rpc></pre>
Description	List files queued up for archive transfer.

<get-system-firmware-information>

Usage	<pre><rpc> <get-system-firmware-information> <compatibility/> </get-system-firmware-information> </rpc></pre>
Description	Show all firmware version information.
Contents	<compatibility>—Show all firmware compatibility information.

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

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

<get-system-storage>

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

<get-system-uptime-information>

Usage	<pre> <rpc> <get-system-uptime-information/> </rpc> </pre>
Description	Show time since system and processes started.

<get-system-users-information>

Usage	<pre> <rpc> <get-system-users-information> <no-resolve/> </get-system-users-information> </rpc> </pre>
Description	Show users who are currently logged in.
Contents	<no-resolve>—Don't attempt to print addresses symbolically.

<get-ted-database-information>

Usage <rpc>
 <get-ted-database-information>
 <logical-system>logical-system</logical-system>
 <brief/>
 <detail/>
 <extensive/>
 <system-id>system-id</system-id>
 </get-ted-database-information>
 </rpc>

Description Show current Traffic Engineering Database.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <extensive>—Display extensive output.
 <logical-system>—Name of logical system, or 'all'.
 <system-id>—System ID or node ID.

<get-ted-link-information>

Usage <rpc>
 <get-ted-link-information>
 <logical-system>logical-system</logical-system>
 <brief/>
 <detail/>
 </get-ted-link-information>
 </rpc>

Description Show current Traffic Engineering Database link.

Contents <brief>—Display brief output (default).
 <detail>—Display detailed output.
 <logical-system>—Name of logical system, or 'all'.

<get-ted-protocol-information>

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

<get-temperature-threshold-information>

Usage	<pre> <rpc> <get-temperature-threshold-information/> </rpc> </pre>
Description	Show chassis temperature threshold settings.

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

Usage	<pre> <rpc> <get-uri-redirect-set-statistics-information> <detail/> </get-uri-redirect-set-statistics-information> </rpc> </pre>
Description	Show URI redirect set statistics.
Contents	<detail>—Display detailed statistics.

<get-vcpu-information>

Usage	<pre> <rpc> <get-vcpu-information> <detail/> <slot>slot</slot> </get-vcpu-information> </rpc> </pre>
Description	Show Visibility CPU status.
Contents	<p><detail>—Display detailed output.</p> <p><slot>—VCPU slot number.</p>

<get-vpls-all-ce-flood-route-information>

Usage	<pre> <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> </pre>
Description	Show route for flooding traffic to all CE routers.
Contents	<p><instance>—Display information for a specified vpls.</p> <p><logical-system>—Name of logical system.</p>

<get-vpls-all-flood-route-information>

Usage	<pre> <rpc> <get-vpls-all-flood-route-information> <logical-system>logical-system</logical-system> <instance>instance</instance> <!-- mandatory --> </get-vpls-all-flood-route-information> </rpc> </pre>
Description	Show route for flooding traffic from customer edge router.
Contents	<p><instance>—Display information for a specified vpls.</p> <p><logical-system>—Name of logical system.</p>

<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>

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

<request-ggsn-start-msisdn-trace>

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

<request-ggsn-stop-imsi-trace>

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

<request-ggsn-stop-interface>

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

<request-ggsn-stop-msisdn-trace>

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

<request-ggsn-stop-node>

Usage	<pre> <rpc> <request-ggsn-stop-node/> </rpc> </pre>
Description	Stop GGSN node activity.

<request-ggsn-stop-trace-activity>

Usage	<pre> <rpc> <request-ggsn-stop-trace-activity/> </rpc> </pre>
Description	Stop all tracing.

<request-ggsn-terminate-context>

Usage	<pre> <rpc> <request-ggsn-terminate-context> <imsi><i>imsi</i></imsi> <!-- mandatory --> <nsapi><i>nsapi</i></nsapi> </request-ggsn-terminate-context> </rpc> </pre>
Description	Terminate specified kind of PDP context.
Contents	<imsi>—Identifier for International Mobile Subscriber Identity. <nsapi>—Network layer service access point identifier.

<request-ggsn-terminate-contexts-apn>

Usage <rpc>
 <request-ggsn-terminate-contexts-apn>
 <apn-name>*apn-name*</apn-name> <!-- mandatory -->
 <user-category>*user-category-choice*</user-category>
 </request-ggsn-terminate-contexts-apn>
 </rpc>

Description Terminate all PDP contexts in access point name.

Contents <apn-name>—Name of access point name.
 <user-category>—Name of user category ('default' or 1..63).
 ■ default—No documentation is available yet.
 ■ user-value—No documentation is available yet.

<request-ggsn-terminate-msisdn-context>

Usage <rpc>
 <request-ggsn-terminate-msisdn-context>
 <msisdn>*msisdn*</msisdn> <!-- mandatory -->
 </request-ggsn-terminate-msisdn-context>
 </rpc>

Description Terminate context for Mobile Station Integrated Services Digital Network.

Contents <msisdn>—Identifier for MSISDN.

<request-halt>

Usage <rpc>
 <request-halt>
 <at>*at*</at>
 <in>*in*</in>
 <message>*message*</message>
 <media>*media-choice*</media>
 <partition>*partition-choice*</partition>
 <both-routing-engines/>
 <other-routing-engine/>
 </request-halt>
 </rpc>

Description Halt the system.

Contents <at>—Time at which to perform the operation.

<both-routing-engines>—Halt both Routing Engines.

<in>—Number of minutes to delay before operation.

<media>—Boot media for next boot.

- compact-flash—Standard boot off flash device.
- disk—Boot off hard disk.
- external—Boot from external mass storage device.
- internal—Boot from internal NAND flash.
- removable-compact-flash—Boot off removable compact flash device.
- usb—Boot off USB device.

<message>—Message to display to all users.

<other-routing-engine>—Halt other Routing Engine.

<partition>—Partition on boot media to boot from.

- 1—Boot from first partition.
- 2—Boot from second partition.
- alternate—Boot from alternate partition.

<request-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/>
 <scc/>
 <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.

 <scc>—Install package on SCC.

 <unlink>—Remove the package after successful installation.

 <validate>—Check compatibility with current configuration.

<request-package-delete>

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

<request-package-delete-backup>

Usage	<pre> <rpc> <request-package-delete-backup/> </rpc> </pre>
Description	Delete old system software packages.

<request-package-in-service-upgrade>

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

 <scc>—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	<pre> <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> </pre>
Description	Add or upgrade jais package.
Contents	<p><dont-forward>—No documentation is available yet.</p> <p><lcc>—Install package on an LCC.</p> <p><member>—Install package on VC Member.</p> <p><no-copy>—Don't save copy of jais package file.</p> <p><package-name>—URL or pathname of package.</p> <p><sccl>—Install package on SCC.</p> <p><unlink>—Remove the package after successful installation.</p>

<request-scripts-package-delete>

Usage	<pre> <rpc> <request-scripts-package-delete/> </rpc> </pre>
Description	Remove jais package.

<request-scripts-package-rollback>

Usage	<pre> <rpc> <request-scripts-package-rollback/> </rpc> </pre>
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.

